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(71) Applicants:

- THE INSTITUTE FOR GENOMIC RESEARCH Rockville, Maryland 20850 (US)
- THE JOHNS HOPKINS UNIVERSITY Baltimore, MD 21205 (US)
- THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 Chapel Hill, North Carolina 27599-4105 (US)

(72) Inventors:

- Fraser, Claire M.
 Rockville, Maryland 20850 (US)
- Adams, Mark D.
 N. Potomac, Maryland (US)

(11)

- Gocayne, Jeannine D.
 Silver Springs, Maryland 20902 (US)
- Hutchison, Clyde A., III
 Chapel Hill, North Carolina 27514 (US)
- Smith, Hamilton O. Towson, Maryland 21204 (US).
- Venter, J. Craig Rockville, Maryland 20850 (US)
- White, Owen Gaithersburg, Maryland 20878 (US)
- (74) Representative: VOSSIUS & PARTNER Siebertstrasse 4
 81675 München (DE)

(54) Nucleotide sequence of the mycoplasma genitalium genome, fragments thereof, and uses thereof

(57) The present invention provides the nucleotide sequence of the entire genome of *Mycoplasma genitalium*, SEQ ID NO:1. The present invention further provides the sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use. In addition to the entire genomic sequence, the present invention identifies protein encoding fragments of the genome, and identifies, by position relative to two (2) genes known to flank the origin of replication, any regulatory elements which modulate the expression of the protein encoding fragments of the *Mycoplasma genitalium* genome.

Description

Cross-Reference to Related Applications

This application is a continuation-in-part of application nos.08/488,018 and 08/473,545, both filed June 7, 1995, and both of which are hereby incorporated by reference.

Background of the Invention

Statement as to Rights to Inventions Made Under Federally-Sponsored Research and Development

Part of the work performed during development of this invention utilized U.S. Government funds. The U.S. Government may have certain rights in the invention -DE-FC02-95ER61962.A000; NP-838C; NIH-Al08998, Al33161, and HL19171.

Field of the Invention

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The present invention relates to the field of molecular biology. The invention discloses compositions comprising the nucleotide sequence of *Mycoplasma genitalium*, fragments thereof, and its use in medical diagnostics, therapies and pharmaceutical development.

Related Background Art

Mycoplasmas are the smallest free-living bacterial organisms known (Colman, S.D. *et al., Mol. Microbiol. 4:*683-687 (1990)). Mycoplasmas are thought to have evolved from higher gram-positive bacteria through the loss of genetic material (Bailey, C.C. *et al., J. Bacteriol. 176:*5814-5819 (1994)). *Mycoplasma genitalium (M genitalium)* is widely considered to be the smallest self-replicating biological system, as the molecular size of its genome has been shown to be only 570-600kp (Pyle, L.E. *et al., Nucleic Acids Res. 16(13):*6015-6025 (1988); Peterson, S.N. *et al., J. Bacteriol. 175:*7918-7930(1993)). All mycoplasmas lack a cell wall and have small genomes and a characteristically low G+C content (Razin, S., *Microbiol. Rev. 49(4):*419-455 (1985); Peterson, S.N. *et al., J. Bacteriol. 175:*7918-7930(1993)). Some mycoplasmas, including *M genitalium*, have a specialized codon usage, whereby UGA encodes tryptophan rather than serving as a stop codon (Inamine, J.M. *et al., J. Bacteriol. 172:*504-506 (1990); Tanaka, J.G. *et al., Nucleic Acids Res. 19:*6787-6792 (1991); Yamao, F.A. *et al., Proc. Natl. Acad Sci. USA 82:*2306-2309 (1985)).

Mycoplasmas are widely known to be significant pathogens of humans, animals, and plants (Bailey, C.C. et al., J. Bacteriol. 176:5814-5819 (1994)). The metabolic systems of mycoplasmas indicate that they are generally biosynthetically deficient, and thus depend on the microenvironment of the host by characteristically adhering to host cells in order to obtain essential precursor molecules, i.e., amino acids, fatty acids and sterols etc. (Baseman, J.B., 1987. Mycoplasma Cell Membranes, Vol. 20. The Plenum Press, New York, NY).

In particular, *M. genitalium*, a newly discovered species, is a pathogenic etiological agent first isolated in 1980 from the urethras of human males infected with non-gonococcal urethritis (Tully, J. G. *et al.*, *Lancet 1:*1288-1291 (1981); Tully, J.G., *et al.*, *Int. J. Syst. Bacteriol. 33:*387-396 (1983)). *M. genitalium* has also been identified in specimens of pneumonia patients as a co-isolate of *Mycoplasma pneumoniae* (Baseman, J.B. *et al.*, *J. Clin. Microbiol.* 26:2266-2269 (1988)). *M. genitalium* opportunistic infection has often been observed in individuals infected with human immunodeficiency virus type 1 (HIV-1) (Lo, S.-C. *et al.*, *Amer. J. Trop. Med. Hyg. 41:*601-616 (1989); Lo, S.-C. *et al.*, *Amer. J. Trop. Med. Hyg. 41:*601-616 (1989); Sasaki, Y. *et al.*, *AIDS Res. Hum. Retrov.* 9(8):775-780 (1993)). Mycoplasmas can also induce various cytokines, including tumor necrosis factor, which may enhance HIV replication (Chowdhury, I.H. *et al.*, *Biochem. Biophys. Res. Commun. 170:*1365-1370 (1990)).

A high amino acid homology exists between the attachment protein of *M. genitalium* and the aligned proteins of several human Class II major histocompatibility complex proteins (HLA), suggesting that *M. genitalium* infection may play an important role in triggering autoimmune mechanisms, thereby aggravating the immunodeficiency characteristics of acquired immune deficiency syndrome (AIDS) (Montagnier, L. *et al., C.R. Acad. Sci. Paris 311(3):*425-430 (1990); Root-Bernstein, R.S. *et al., Res. Immunol. 142:*519-523 (1991); Bisset, L.R. *Autoimmunity 14:*167-168 (1992)). A diagnostic immunoassay for detecting *M. genitalium* infection using monoclonal antibodies specific for some *M. genitalium* antigens has been developed. Baseman, J.B. *et al.*, U.S. Pat. No. 5,158,870.

Due to its diminutive genomic size, *M. genitalium* provides a useful model for determining the minimum number of genes and protein products necessary for a host-independent existence. *M. genitalium* expresses a characteristically low number of base-pairs and low G+C content, which along with its UGA tryptophan codon, has hampered sequencing efforts by conventional techniques (Razin, A., *Microbiol. Rev.* 49(4):419-455 (1985); Colman, S.D. *et al.*, *Gene* 87:91-96 (1990); Dybvig, K. 1992. *Gene Transfer In:* Maniloff, J. (ed.) *Mycoplasmas: Molecular Biology and Pathogenesis.*

Am. Soc. Microbiol. Washington, D.C., pp.355-362)). M. genitalium possesses a single circular chromosome (Colman, S.D. et al., Gene 87:91-96 (1990); Peterson, S.N. et al., J. Bacteriol. 175:7918-7930 (1993)). The characterization of the genome of M. genitalium has also been hampered by the lack of auxotrophic mutants and by the lack of a system for genetic exchange, precluding reverse genetic approaches. Thus, the sequencing of the M. genitalium genome would enhance the understanding of how M. genitalium causes or promotes various invasive or immunodeficiency diseases and to how best to medically combat mycoplasma infection.

Prior attempts at characterizing the structure and gene arrangement of the chromosomes of mycoplasmas using pulsed-field gel electrophoretic methods (Pyle, L.E. et al., Nucleic Acids Res. 16(13):6015-6025 (1988); Neimark, H.C. et al., Nucleic Acids Res. 18(18):5443-5448 (1990)), indicated that mycoplasmas have genomes ranging widely in size. Southern blot hybridization of digested DNAs of M. genitalium compared to the well-known human pathogen, M. pneumoniae, indicated overall low homology values of approximately 6-8% (Yogev, D. et al., Int. J. Syst. Bacteriol. 36(3):426-430 (1986)). However, high homologies have been reported between the adhesin genes of M. genitalium and M. pneumoniae (Dallo, S.F. et al., Microbial Path. 6:69-73 (1989)). Initial studies at characterizing the genome of M. genitalium by comparison to the well-known M. pneumoniae species, indicated that both species have three (3) rRNA genes clustered together in a chromosomal segment of about 5kb and form a single operon organized in classical procaryotic fashion, but differences exist between their respective restriction sites (Yogev, D. et al., Int. J. Syst. Bacteriol. 36(3):426-430 (1986)).

Restriction enzyme mapping of *M. genitalium* indicates that the genome is approximately 600kb. Several genes have also been mapped, including the single ribosomal operon, and the gene encoding the MgPa cytadhesion protein (Su, C.J. *et al.*, *J. Bacteriol.* 172:4705-4707 (1990); Colman, S.D. *et al.*, *Mol. Microbiol.* 4(4):683-687 (1990)). The entire restriction map of the genome of *M. genitalium* has also been cloned in an ordered library of 20 overlapping cosmids and one λ clone (Lucier, T.S. *et al.*, *Gene* 150:27-34 (1994)).

An initial study using random sequencing techniques to characterize the *M. genitalium* genome resulted in forty-four (44) random clones being partially sequenced; several long open reading frames were also found (Peterson, S.N. et al., Nucleic Acids Rev. 19:6027-6031 (1991)). Subsequent work using random sequencing of 508 random nonidentical clones has allowed sequence information to be compiled for approximately seventeen percent (17%) (100,993 nucleotides) of the *M. genitalium* genome (Peterson, S.N. et al., J. Bacteriol. 175:7918-7930 (1993)). Sequence information indicates that the diminutive genome of *M. genitalium* contains numerous genes involved in various metabolic processes. The genome is estimated to encode approximately 390 proteins, indicating that *M. genitalium* makes very efficient use of its limited amount of DNA (Peterson, S.N. et al., J. Bacteriol. 175:7918-7930 (1993)).

Several studies have been undertaken to sequence and characterize individual genes identified in *M. genitalium*. In particular, the medically important aspects of *M. genitalium* have helped to direct interest to those genes which determine the degree of infectivity and the virulence characteristics of the organism. The nucleotide sequence and deduced amino acid sequence for the MgPa adhesin gene, *i.e.*, the gene encoding the surface cytadhesion protein of *M. genitalium*, indicates that the complete gene contains 4,335 nucleotides coding for a protein of 159,668 Da. (Dallo, S.F. *et al.*, *Infect. Immun.* 57(4):1059-1065 (1989)). Furthermore, subsequent nucleotide sequencing of the *M. genitalium* MgPa adhesin gene revealed the specific codon order for this important gene (Inamine, J.M. *et al.*, *Gene* 82:259-267 (1989)). The MgPa adhesin gene also has been shown to express restriction fragment length polymorphism (Dallo, S.F. *et al.*, *Microbial Path.* 10:475-480 (1991)). Nucleotide homology to the well-known highly conserved procaryotic origin-of-replication gene (*gyrA*) was noted for *M. genitalium* (Bailey, C.C. *et al.*, *J. Bacteriol.* 176:5814-5819 (1994)). The highly conserved procaryotic elongation factor, Tu, encoded by the *tuf* gene, has been noted and sequenced for *M. genitalium*, and was found to contain an open reading frame encoding a protein of approximately 393 amino acids (Loechel, S. *et al.*, *Nucleic Acids Res.* 17(23):10127 (1989)). The *tuf* gene of *M. genitalium* has also been determined to use a signal other than a Shine-Delgarno (ribosomal binding site) sequence preceding the initiation codon (Loechel, S. *et al.*, *Nucleic Acids Res.* 19:6905-6911 (1991)).

Summary of the Invention

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The present invention is based on the sequencing of the *Mycoplasma genitalium* genome. The primary nucleotide sequence which was generated is provided in SEQ ID NO:1.

The present invention provides the generated nucleotide sequence of the *Mycoplasma genitalium* genome, or a representative fragment thereof, in a form which can be readily used, analyzed, and interpreted by a skilled artisan. In one embodiment, present invention is provided as a contiguous string of primary sequence information corresponding to the nucleotide sequence depicted in SEQ ID NO:1.

The present invention further provides nucleotide sequences which are at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1.

The nucleotide sequence of SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence which is at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1 may be provided in a variety of mediums to facilitate its use. In one application of this embodiment, the sequences of the present invention are recorded on computer read-

able media. Such media includes, but is not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

The present invention further provides systems, particularly computer-based systems which contain the sequence information herein described stored in a data storage means. Such systems are designed to identify commercially important fragments of the *Mycoplasma genitalium* genome.

Another embodiment of the present invention is directed to isolated fragments of the *Mycoplasma genitalium* genome. The fragments of the *Mycoplasma genitalium* genome of the present invention include, but are not limited to, fragments which encode peptides, hereinafter open reading frames (ORFs), fragments which modulate the expression of an operably linked ORF, hereinafter expression modulating fragments (EMFs), fragments which mediate the uptake of a linked DNA fragment into a cell, hereinafter uptake modulating fragments (UMFs), and fragments which can be used to diagnose the presence of *Mycoplasma genitalium* in a sample, hereinafter, diagnostic fragments (DFs).

Each of the ORF fragments of the *Mycoplasma genitalium* genome disclosed in Tables 1(a), 1(c) and 2, and the EMF found 5' to the ORF, can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes or diagnostic amplification primers for the presence of a specific microbe in a sample, for the production of commercially important pharmaceutical agents, and to selectively control gene expression.

The present invention further includes recombinant constructs comprising one or more fragments of the *Myco-plasma genitalium* genome of the present invention. The recombinant constructs of the present invention comprise vectors, such as a plasmid or viral vector, into which a fragment of the *Mycoplasma genitalium* has been inserted.

The present invention further provides host cells containing any one of the isolated fragments of the *Mycoplasma* genitalium genome of the present invention. The host cells can be a higher eukaryotic host such as a mammalian cell, a lower eukaryotic cell such as a yeast cell, or can be a procaryotic cell such as a bacterial cell.

The present invention is further directed to isolated proteins encoded by the ORFs of the present invention. A variety of methodologies known in the art can be utilized to obtain any one of the proteins of the present invention. At the simplest level, the amino acid sequence can be synthesized using commercially available peptide synthesizers. In an alternative method, the protein is purified from bacterial cells which naturally produce the protein. Lastly, the proteins of the present invention can alternatively be purified from cells which have been altered to express the desired protein.

The invention further provides methods of obtaining homologs of the fragments of the *Mycoplasma genitalium* genome of the present invention and homologs of the proteins encoded by the ORFs of the present invention. Specifically, by using the nucleotide and amino acid sequences disclosed herein as a probe or as primers, and techniques such as PCR cloning and colony/plaque hybridization, one skilled in the art can obtain homologs.

The invention further provides antibodies which selectively bind one of the proteins of the present invention. Such antibodies include both monoclonal and polyclonal antibodies.

The invention further provides hybridomas which produce the above-described antibodies. A hybridoma is an immortalized cell line which is capable of secreting a specific monoclonal antibody.

The present invention further provides methods of identifying test samples derived from cells which express one of the ORF of the present invention, or homolog thereof. Such methods comprise incubating a test sample with one or more of the antibodies of the present invention, or one or more of the DFs of the present invention, under conditions which allow a skilled artisan to determine if the sample contains the ORF or product produced therefrom.

In another embodiment of the present invention, kits are provided which contain the necessary reagents to carry out the above-described assays.

Specifically, the invention provides a compartmentalized kit to receive, in close confinement, one or more containers which comprises: (a) a first container comprising one of the antibodies, or one of the DFs of the present invention; and (b) one or more other containers comprising one or more of the following: wash reagents, reagents capable of detecting presence of bound antibodies or hybridized DFs.

Using the isolated proteins of the present invention, the present invention further provides methods of obtaining and identifying agents capable of binding to a protein encoded by one of the ORFs of the present invention. Specifically, such agents include antibodies (described above), peptides, carbohydrates, pharmaceutical agents and the like. Such methods comprise the steps of:

- (a) contacting an agent with an isolated protein encoded by one of the ORFs of the present invention; and
- (b) determining whether the agent binds to said protein.

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The complete genomic sequence of *M. genitalium* will be of great value to all laboratories working with this organism and for a variety of commercial purposes. Many fragments of the *Mycoplasma genitalium* genome will be immediately identified by similarity searches against GenBank or protein databases and will be of immediate value to *Mycoplasma* researchers and for immediate commercial value for the production of proteins or to control gene expression. A specific example concerns PHA synthase. It has been reported that polyhydroxybutyrate is present in the membranes of *M. genitalium* and that the amount correlates with the level of competence for transformation. The PHA

synthase that synthesizes this polymer has been identified and sequenced in a number of bacteria, none of which are evolutionarily close to *M. genitalium*. This gene has yet to be isolated from *M. genitalium* by use of hybridization probes or PCR techniques. However, the genomic sequence of the present invention allows the identification of the gene by utilizing search means described below.

Developing the methodology and technology for elucidating the entire genomic sequence of bacterial and other small genomes has and will greatly enhance the ability to analyze and understand chromosomal organization. In particular, sequenced genomes will provide the models for developing tools for the analysis of chromosome structure and function, including the ability to identify genes within large segments of genomic DNA, the structure, position, and spacing of regulatory elements, the identification of genes with potential industrial applications, and the ability to do comparative genomic and molecular phylogeny.

Brief Description of the Figures

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Figure 1 - EcoRI restriction map of the Mycoplasma genitalium genome.

Figure 2 - Block diagram of a computer system 102 that can be used to implement the computer-based systems of present invention.

Figure 3 - Summary of the Mycoplasma genitalium sequencing project.

Figure 4 - A circular representation of the *M. genitalium* chromosome. Outer concentric circle: Coding regions on the plus strand for which a gene identification was made. Each coding region location is coded as to role according to the color code in Figure 5. Second concentric circle: Coding regions on the minus strand for which a gene identification was made. Third concentric circle: The direction of transcription on each strand of the chromosome is depicted as a red arrow starting at the putative origin of replication. Fourth concentric circle: Coverage by cosmid and lambda clones (blue). Nineteen cosmid clones and one lambda clone were sequenced from each end to confirm the overall structure of the genome. Fifth concentric circle: The locations of the single ribosomal operon (blue) and the 33 tRNAs. The clusters of tRNAs (trnA, trnB, trnC, trnD and trnE) are indicated by the letters A-E with the number of tRNAs in each cluster listed in parentheses. Sixth concentric circle: Location of the MgPa operon (green) and MgPa repeat fragments (brown).

Figure 5 - Gene map of the *M. genitalium* genome. Predicted coding regions are shown on each strand. The rRNA operon and tRNA genes are shown as a line and as triangles, respectively. Genes are color-coded by the role category as described in the Figure key. Gene identification numbers correspond to those in Table 6. Where possible, three-letter designations are also provided.

Figure 6 - Location of the MgPa repeats in the *M. genitalium* genome. The structure of the MgPa operon (ORF1-MgPa gene-ORF3) in the *M. genitalium* genome is illustrated across the top. In addition to the complete operon, nine repetitive elements which are composites of particular regions of the MgPa operon were found. The coordinates of each repeat in the genome are indicated on the left and right end of each line. The repetitive elements are located directly below those regions in the operon for which there is sequence similarity. The percent of sequence identity between the repeat elements and the MgPa gene ranges from 78%-90%. In some of the repeats, the MgPa-related sequences are separated in the genome by a variable length, A-T rich spacer sequence (indicated in the figure by a line with the length of the spacer indicated in bp). In cases where no spacer sequence is shown, the composites of the operon are co-linear in the genome. In repeats 7 and 9, the order of the sequences in the repeats differs from that in the operon. In these cases, the order of the elements in each repeat in the genome is indicated numerically where element 1 is followed by element 2 which is followed by element 3, etc.

Detailed Description of the Preferred Embodiments

The present invention is based on the sequencing of the *Mycoplasma genitalium* genome. The primary nucleotide sequence which was generated is provided in SEQ ID NO:1. As used herein, the "primary sequence" refers to the nucleotide sequence represented by the IUPAC nomenclature system.

The sequence provided in SEQ ID NO:1 is oriented relative to two genes (DNAA and DNA gyrase) known to flank the origin of replication of the *Mycoplasma genitalium* genome. A skilled artisan will readily recognize that this start/stop point was chosen for convenience and does not reflect a structural significance.

The present invention provides the nucleotide sequence of SEQ ID NO:1, or a representative fragment thereof, in a form which can be readily used, analyzed, and interpreted by a skilled artisan. In one embodiment, the sequence is provided as a contiguous string of primary sequence information corresponding to the nucleotide sequence provided in SEQ ID NO:1.

As used herein, a "representative fragment of the nucleotide sequence depicted in SEQ ID NO:1" refers to any portion of SEQ ID NO:1 which is not presently represented within a publicly available database. Preferred representative fragments of the present invention are *Mycoplasma genitalium* open reading frames, expression modulating fragments, uptake modulating fragments, and fragments which can be used to diagnose the presence of *Mycoplasma genitalium* in sample. A non-limiting identification of such preferred representative fragments is provided in Tables 1(a), 1(c) and 2.

The nucleotide sequence information provided in SEQ ID NO:1 was obtained by sequencing the *Mycoplasma* genitalium genome using a megabase shotgun sequencing method. The nucleotide sequence provided in SEQ ID NO:1 is a highly accurate, although not necessarily a 100% perfect, representation of the nucleotide sequence of the *Mycoplasma genitalium* genome.

As discussed in detail below, using the information provided in SEQ ID NO:1 and in Tables 1(a), 1(c) and 2 together with routine cloning and sequencing methods, one of ordinary skill in the art would be able to clone and sequence all "representative fragments" of interest including open reading frames (ORFs) encoding a large variety of *Mycoplasma genitalium* proteins. In very rare instances, this may reveal a nucleotide sequence error present in the nucleotide sequence disclosed in SEQ ID NO:1. Thus, once the present invention is made available (i.e., once the information in SEQ ID NO:1 and Tables 1(a), 1(c) and 2 have been made available), resolving a rare sequencing error in SEQ ID NO:1 would be well within the skill of the art. Nucleotide sequence editing software is publicly available. For example, Applied Biosystem's (AB) AutoAssembler™ can be used as an aid during visual inspection of nucleotide sequences.

Even if all of the very rare sequencing errors in SEQ ID NO:1 were corrected, the resulting nucleotide sequence would still be at least 99.9% identical to the nucleotide sequence in SEQ ID NO:1.

The nucleotide sequences of the genomes from different strains of *Mycoplasma genitalium* differ slightly. However, the nucleotide sequence of the genomes of all *Mycoplasma genitalium* strains will be at least 99.9% identical to the nucleotide sequence provided in SEQ ID NO.1.

Thus, the present invention further provides nucleotide sequences which are at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1 in a form which can be readily used, analyzed and interpreted by the skilled artisan. Methods for determining whether a nucleotide sequence is at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1 are routine and readily available to the skilled artisan. For example, the well known fasta algothrithm (Pearson and Lipman, *Proc. Natl. Acad. Sci. USA 85*:2444 (1988)) can be used to generate the percent identity of nucleotide sequences.

Computer Related Embodiments

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The nucleotide sequence provided in SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to SEQ ID NO:1 may be "provided" in a variety of mediums to facilitate use thereof. As used herein, provided refers to a manufacture, other than an isolated nucleic acid molecule, which contains a nucleotide sequence of the present invention, i.e., the nucleotide sequence provided in SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to SEQ ID NO:1. Such a manufacture provides the *Mycoplasma genitalium* genome or a subset thereof (e.g., a *Mycoplasma genitalium* open reading frame (ORF)) in a form which allows a skilled artisan to examine the manufacture using means not directly applicable to examining the *Mycoplasma genitalium* genome or a subset thereof as it exists in nature or in purified form.

In one application of this embodiment, a nucleotide sequence of the present invention can be recorded on computer readable media. As used herein, "computer readable media" refers to any medium which can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. A skilled artisan can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium having recorded thereon a nucleotide sequence of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. A skilled artisan can readily adopt any of the presently know methods for recording information on computer readable medium to generate manufactures comprising the nucleotide sequence information of the present invention.

A variety of data storage structures are available to a skilled artisan for creating a computer readable medium having recorded thereon a nucleotide sequence of the present invention. The choice of the data storage structure will generally be based on the means chosen to access the stored information. In addition, a variety of data processor programs and formats can be used to store the nucleotide sequence information of the present invention on computer readable medium. The sequence information can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like. A skilled artisan can readily adapt any number of dataprocessor structuring formats (e.g. text file or database) in order to obtain computer readable medium having recorded thereon the nucleotide sequence information of the present invention.

By providing the nucleotide sequence of SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to SEQ ID NO:1 in computer readable form, a skilled artisan can routinely access the sequence information for a variety of purposes. Computer software is publicly available which allows a skilled artisan to access sequence information provided in a computer readable medium. The examples which follow demonstrate how software which implements the BLAST (Altschul *et al.*, *J. Mol. Biol. 215*:403-410 (1990)) and BLAZE (Brutlag *et al.*, *Comp. Chem. 17*:203-207 (1993)) search algorithms on a Sybase system was used to identify open reading frames

(ORFs) within the *Mycoplasma genitalium* genome which contain homology to ORFs or proteins from other organisms. Such ORFs are protein encoding fragments within the *Mycoplasma genitalium* genome and are useful in producing commercially important proteins such as enzymes used in fermentation reactions and in the production of commercially useful metabolites.

The present invention further provides systems, particularly computer-based systems, which contain the sequence information described herein. Such systems are designed to identify commercially important fragments of the *Myco-plasma genitalium* genome.

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As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention.

As stated above, the computer-based systems of the present invention comprise a data storage means having stored therein a nucleotide sequence of the present invention and the necessary hardware means and software means for supporting and implementing a search means. As used herein, "data storage means" refers to memory which can store nucleotide sequence information of the present invention, or a memory access means which can access manufactures having recorded thereon the nucleotide sequence information of the present invention.

As used herein, "search means" refers to one or more programs which are implemented on the computer-based system to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the *Mycoplasma genitalium* genome which match a particular target sequence or target motif. A variety of known algorithms are disclosed publicly and a variety of commercially available software for conducting search means are available and can be used in the computer-based systems of the present invention. Examples of such software includes, but is not limited to, MacPattern (EMBL), BLASTN and BLASTX (NCBIA). A skilled artisan can readily recognize that any one of the available algorithms or implementing software packages for conducting homology searches can be adapted for use in the present computer-based systems.

As used herein, a "target sequence" can be any DNA or amino acid sequence of six or more nucleotides or two or more amino acids. A skilled artisan can readily recognize that the longer a target sequence is, the less likely a target sequence will be present as a random occurrence in the database. The most preferred sequence length of a target sequence is from about 10 to 100 amino acids or from about 30 to 300 nucleotide residues. However, it is well recognized that searches for commercially important fragments of the *Mycoplasma genitalium* genome, such as sequence fragments involved in gene expression and protein processing, may be of shorter length.

As used herein, "a target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequence(s) are chosen based on a three-dimensional configuration which is formed upon the folding of the target motif. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzymic active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, promoter sequences, hairpin structures and inducible expression elements (protein binding sequences).

A variety of structural formats for the input and output means can be used to input and output the information in the computer-based systems of the present invention. A preferred format for an output means ranks fragments of the *Mycoplasma genitalium* genome possessing varying degrees of homology to the target sequence or target motif. Such presentation provides a skilled artisan with a ranking of sequences which contain various amounts of the target sequence or target motif and identifies the degree of homology contained in the identified fragment.

A variety of comparing means can be used to compare a target sequence or target motif with the data storage means to identify sequence fragments of the *Mycoplasma genitalium* genome. In the present examples, implementing software which implement the BLAST and BLAZE algorithms (Altschul *et al., J. Mol. Biol. 215*:403-410 (1990)) was used to identify open reading frames within the *Mycoplasma genitalium* genome. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer-based systems of the present invention.

One application of this embodiment is provided in Figure 2. Figure 2 provides a block diagram of a computer system 102 that can be used to implement the present invention. The computer system 102 includes a processor 106 connected to a bus 104. Also connected to the bus 104 are a main memory 108 (preferably implemented as random access memory, RAM) and a variety of secondary storage devices 110, such as a hard drive 112 and a removable medium storage device 114. The removable medium storage device 114 may represent, for example, a floppy disk drive, a CD-ROM drive, a magnetic tape drive, etc. A removable storage medium 116 (such as a floppy disk, a compact disk, a magnetic tape, etc.) containing control logic and/or data recorded therein may be inserted into the removable medium storage device 114. The computer system 102 includes appropriate software for reading the control logic and/or the data from the removable medium storage device 114 once inserted in the removable medium storage device 114.

A nucleotide sequence of the present invention may be stored in a well known manner in the main memory 108, any of the secondary storage devices 110, and/or a removable storage medium 116. Software for accessing and

processing the genomic sequence (such as search tools, comparing tools, etc.) reside in main memory 108 during execution.

Biochemical Embodiments

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Another embodiment of the present invention is directed to isolated fragments of the *Mycoplasma genitalium* genome. The fragments of the *Mycoplasma genitalium* genome of the present invention include, but are not limited to fragments which encode peptides, hereinafter open reading frames (ORFs), fragments which modulate the expression of an operably linked ORF, hereinafter expression modulating fragments (EMFs), fragments which mediate the uptake of a linked DNA fragment into a cell, hereinafter uptake modulating fragments (UMFs), and fragments which can be used to diagnose the presence of *Mycoplasma genitalium* in a sample, hereinafter diagnostic fragments (DFs).

As used herein, an "isolated nucleic acid molecule" or an "isolated fragment of the *Mycoplasma genitalium* genome" refers to a nucleic acid molecule possessing a specific nucleotide sequence which has been subjected to purification means to reduce, from the composition, the number of compounds which are normally associated with the composition. A variety of purification means can be used to generated the isolated fragments of the present invention. These include, but are not limited to methods which separate constituents of a solution based on charge, solubility, or size.

In one embodiment, *Mycoplasma genatalium* DNA can be mechanically sheared to produce fragments of 15-20 kb in length. These fragments can then be used to generate an *Mycoplasma genitalium* library by inserting them into lambda clones as described in the Examples below. Primers flanking, for example, an ORF provided in Table 1(a), 1(c) or 2 can then be generated using nucleotide sequence information provided in SEQ ID NO:1. PCR cloning can then be used to isolate the ORF from the lambda DNA library. PCR cloning is well known in the art. Thus, given the availability of SEQ ID NO:1, Table 1(a), 1(c) and Table 2, it would be routine to isolate any ORF or other representative fragment of the present invention.

The isolated nucleic acid molecules of the present invention include, but are not limited to single stranded and double stranded DNA, and single stranded RNA.

As used herein, an "open reading frame," ORF, means a series of triplets coding for amino acids without any termination codons and is a sequence translatable into protein. Tables 1(a), 1(b), 1(c) and 2 identify ORFs in the *Mycoplasma genitalium* genome. In particular, Table 1(a) indicates the location of ORFs (i.e., the adresses) within the *Mycoplasma genitalium* genome which encode the recited protein based on homology matching with protein sequences from the organism appearing in parentheticals (see the fifth column of Table 1(a)).

The first column of Table 1(a) provides the "UID" (an arbitrary identification number) of a particular ORF. The second and third columns in Table 1(a) indicate an ORFs position in the nucleotide sequence provided in SEQ ID NO:1. One of ordinary skill in the art will recognize that ORFs may be oriented in opposite directions in the *Mycoplasma genitalium* genome. This is reflected in columns 2 and 3.

The fourth column of Table 1(a) provides the accession number of the database match for the ORF. As indicated above, the fifth column of Table 1(a) provides the name of the database match for the ORF.

The sixth column of Table 1(a) indicates the percent identity of the protein encoded for by an ORF to the corresponding protein from the orgaism appearing in parentheticals in the fifth column. The seventh column of Table 1(a) indicates the percent similarity of the protein encoded for by an ORF to the corresponding protein from the organism appearing in parentheticals in the fifth column. The concepts of percent identity and percent similarity of two polypeptide sequences are well understood in the art. For example, two polypeptides 10 amino acids in length which differ at three amino acid positions (e.g., at positions 1,3 and 5) are said to have a percent identity of 70%. However, the same two polypeptides would be deemed to have a percent similarity of 80% if, for example at position 5, the amino acids moieties, although not identical, were "similar" (i.e., possessed similar biochemical characteristics). The eighth column in Table 1(a) indicates the length of the ORF in nucleotides.

Table 1(b) is a list of ORFs that have database matches to previously published *Mycoplasma genitalium* sequences over the full length of the ORF. The talbe headings for Table 1(b) are identical for Table 1(a) with the following two exceptions: (II) The heading for the eighth column in Table 1(a) (i.e., nucleotide length of the ORF) has been replaced with the following in Table 1(b): "Match_info". "Match_info" refers to the coordinates of the match of the ORF and the previously published *Mycoplama genitalium* sequence. For example, "MG002 (1-930 of 930) GB:U09251 (298-1227 of 6140)," indicates that for ORF MG002, which is 930 nucleotides in length, there is a database match to accession number GB:U09251, which has a total length of 6140 nucleotides. The ORF matches this accession from position 298 to 1227. (II) Where an ORF shows homology matches for both a previously published *Mycoplasma genitalium* sequence and a previously published sequence from a different organism, columns 3, 4, 5, and 6 of Table 1(b) respectively provide the accession number, protein name (and organism in parentheticals), percent identity and percent similarity for the "other organism," rather than for the previously published *Mycoplasma genitalium* sequence. (However, in this scenario, the accession number for the *Mycoplasma genitalium* sequence is still provided in column 8.)

Table 1(c) provides ORFs having database matches to previously published Mycoplasma genitalium sequences

but only over a portion of the ORF. The table headings are the same as above for Table 1(b).

In Tables 1(a), 1(b) and 1(c), unique identifiers are used to identify the recited ORFs, (e.g., "MG123"). In the parent application nos. 08/488,018 and 08/473,545, the recited ORFs are identified unsing the "MORF" identifier. Table 1(d) lists which of the new and old identifiers refer to the same ORF. For example, the first entry in Table 1(d) indicates that the ORF identified as MG001 in the current application is the same ORF which was previously identified as MORF-20072 in parent application nos. 08/488,018 and 08/473,545. Similarly, the third entry in Table 1(d) indicates that the ORF identified as MG003 in the current application is the same ORF which was previously identified as MORF-19818 and MORF-20073 in the parent applications.

Table 2 provides ORFs of the *Mycoplasma genitalium* genome which did not elicit a "homology match" with a known sequence from either *M. genitalium* or another organism.

Table 6 classifies each ORF according to its role category (adapted from Riley, M., *Microbiol. Rev.* 57:862 (1992)). The gene identification, the accession number from public archives that corresponds to the best match, the percent amino acid identity, and the length of the match in amino acids is also listed for each entry as above in Tables 1 (a-c). Those genes in *M. genitalium* that also match a gene in *H. influenzae* are indicated by an asterisk (*) For the purposes of Tables 6 and 7 and Figure 4, each of the MgPa repetitive elements has been assigned an MG number, even though there is evidence to suggest that these repeats may not be transcribed.

Table 7 sorts the gene content in *H. influenzae* and *M. genitalium* by functional category. The number of genes in each category is listed for each organism. The number in parentheses indicates the percent of the putatively identified genes devoted to each functional cetegory. For the category of unassigned genes, the percent of the genome indicated in parentheses represents the percent of the total number of putative coding regions.

Further details concerning the algorithms and criteria used for homology searches are provided in the Examples below.

A skilled artisan can readily identify ORFs in the *Mycoplasma genitalium* genome other than those listed in Tables 1(a), 1(b), 1(c) and 2, such as ORFs which are overlapping or encoded by the opposite strand of an identified ORF in addition to those ascertainable using the computer-based systems of the present invention.

As used herein, an "expression modulating fragment," EMF, means a series of nucleotide molecules which modulates the expression of an operably linked ORF or EMF.

As used herein, a sequence is said to "modulate the expression of an operably linked sequence" when the expression of the sequence is altered by the presence of the EMF. EMFs include, but are not limited to, promoters, and promoter modulating sequences (inducible elements). One class of EMFs are fragments which induce the expression or an operably linked ORF in response to a specific regulatory factor or physiological event. A review of known EMFs from *Mycoplasma* are described by (Tomb *et al. Gene 104*:1-10 (1991), Chandler, M. S., *Proc. Natl. Acad Sci. USA 89*:1626-1630 (1992).

EMF sequences can be identified within the *Mycoplasma genitalium* genome by their proximity to the ORFs provided in Tables 1(a), 1(b), 1(c) and 2. An intergenic segment, or a fragment of the intergenic segment, from about 10 to 200 nucleotides in length, taken 5' from any one of the ORFs of Tables 1(a), 1(b), 1(c) or 2 will modulate the expression of an operably linked 3' ORF in a fashion similar to that found with the naturally linked ORF sequence. As used herein, an "intergenic segment" refers to the fragments of the *Mycoplasma* genome which are between two ORF(s) herein described. Alternatively, EMFs can be identified using known EMFs as a target sequence or target motif in the computer-based systems of the present invention.

The presence and activity of an EMF can be confirmed using an EMF trap vector. An EMF trap vector contains a cloning site 5' to a marker sequence. A marker sequence encodes an identifiable phenotype, such as antibiotic resistance or a complementing nutrition auxotrophic factor, which can be identified or assayed when the EMF trap vector is placed within an appropriate host under appropriate conditions. As described above, an EMF will modulate the expression of an operably linked marker sequence. A more detailed discussion of various marker sequences is provided below.

A sequence which is suspected as being an EMF is cloned in all three reading frames in one or more restriction sites upstream from the marker sequence in the EMF trap vector. The vector is then transformed into an appropriate host using known procedures and the phenotype of the transformed host in examined under appropriate conditions. As described above, an EMF will modulate the expression of an operably linked marker sequence.

As used herein, an "uptake modulating fragment," UMF, means a series of nucleotide molecules which mediate the uptake of a linked DNA fragment into a cell. UMFs can be readily identified using known UMFs as a target sequence or target motif with the computer-based systems described above.

The presence and activity of a UMF can be confirmed by attaching the suspected UMF to a marker sequence. The resulting nucleic acid molecule is then incubated with an appropriate host under appropriate conditions and the uptake of the marker sequence is determined. As described above, a UMF will increase the frequency of uptake of a linked marker sequence. A review of DNA uptake in *Mycoplasma* is provided by Goodgall, S.H., *et al.*, *J. Bact. 172*:5924-5928 (1990).

As used herein, a "diagnostic fragment," DF, means a series of nucleotide molecules which selectively hybridize to

Mycoplasma genitalium sequences. DFs can be readily identified by identifying unique sequences within the Mycoplasma genitalium genome, or by generating and testing probes or amplification primers consisting of the DF sequence in an appropriate diagnostic format which determines amplification or hybridization selectivity.

The sequences falling within the scope of the present invention are not limited to the specific sequences herein described, but also include allelic and species variations thereof. Allelic and species variations can be routinely determined by comparing the sequence provided in SEQ ID NO: 1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to SEQ ID NO:1 with a sequence from another isolate of the same species. Furthermore, to accommodate codon variability, the invention includes nucleic acid molecules coding for the same amino acid sequences as do the specific ORFs disclosed herein. In other words, in the coding region of an ORF, substitution of one codon for another which encodes the same amino acid is expressly contemplated.

Any specific sequence disclosed herein can be readily screened for errors by resequencing a particular fragment, such as an ORF, in both directions (i.e., sequence both strands). Alternatively, error screening can be performed by sequencing correspond polynucleotides of *Mycoplasma genitalium* origin isolated by using part or all of the fragments in question as a probe or primer.

Each of the ORFs of the *Mycoplasma genitalium* genome disclosed in Tables 1(a), 1(b), 1(c) and 2, and the EMF found 5' to the ORF, can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes or diagnostic amplification primers to detect the presence of a specific microbe, such as *Mycoplasma genitalium*, in a sample. This is especially the case with the fragments or ORFs of Table 2, which will be highly selective for *Mycoplasma genitalium*.

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In addition, the fragments of the present invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on the binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al., Nucl. Acids Res. 6:3073 (1979); Cooney et al., Science 241:456 (1988); and Dervan et al., Science 251:1360 (1991)) or to the mRNA itself (antisense - Okano, J. Neurochem. 56:560 (1991); Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression, CRC Press, Boca Raton, FL (1988)).

Triple helix- formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be effective in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

The present invention further provides recombinant constructs comprising one or more fragments of the *Mycoplasma genitalium* genome of the present invention. The recombinant constructs of the present invention comprise a vector, such as a plasmid or viral vector, into which a fragment of the *Mycoplasma genitalium* has been inserted, in a forward or reverse orientation. In the case of a vector comprising one of the ORFs of the present invention, the vector may further comprise regulatory sequences, including for example, a promoter, operably linked to the ORF. For vectors comprising the EMFs and UMFs of the present invention, the vector may further comprise a marker sequence or heterologous ORF operably linked to the EMF or UMF. Large numbers of suitable vectors and promoters are known to those of skill in the art and are commercially available for generating the recombinant constructs of the present invention. The following vectors are provided by way of example. Bacterial: pBs, phagescript, PsiX174, pBluescript SK, pBs, KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene): pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia). Eukaryotic: pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene) pSVK3, pBPV, pMSG, pSVL (Pharmacia).

Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

The present invention further provides host cells containing anyone of the isolated fragments of the *Mycoplasma* genitalium genome of the present invention, wherein the fragment has been introduced into the host cell using known transformulation methods. The host cell can be a higher eukaryotic host cell, such as a mammalian cell, a lower eukaryotic host cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the recombinant construct into the host cell can be effected by calcium phosphate transfection, DEAE, dextran mediated transfection, or electroporation (Davis, L. et al., Basic Methods in Molecular Biology (1986)).

The host cells containing one of the fragments of the *Mycoplasma genitalium* genome of the present invention, can be used in conventional manners to produce the gene product encoded by the isolated fragment (in the case of an ORF) or can be used to produce a heterologous protein under the control of the EMF.

The present invention further provides isolated polypeptides encoded by the nucleic acid fragments of the present invention or by degenerate variants of the nucleic acid fragments of the present invention. By "degenerate variant" is intended nucleotide fragments which differ from a nucleic acid fragment of the present invention (e.g., an ORF) by nucleotide sequence but, due to the degeneracy of the Genetic Code, encode an identical polypeptide sequence. Pre-

ferred nucleic acid fragments of the present invention are the ORFs depicted in Tables 1(a), 1(c) and 2.

A variety of methodologies known in the art can be utilized to obtain any one of the isolated polypeptides or proteins of the present invention. At the simplest level, the amino acid sequence can be synthesized using commercially available peptide synthesizers. This is particularly useful in producing small peptides and fragments of larger polypeptides. Fragments are useful, for example, in generating antibodies against the native polypeptide. In an alternative method, the polypeptide or protein is purified from bacterial cells which naturally produce the polypeptide or protein. One skilled in the art can readily follow known methods for isolating polpeptides and proteins in order to obtain one of the isolated polypeptides or proteins of the present invention. These include, but are not limited to, immunochromatography, HPLC, size-exclusion chromatography, ion-exchange chromatography, and immuno-affinity chromatography.

The polypeptides and proteins of the present invention can alternatively be purified from cells which have been altered to express the desired polypeptide or protein. As used herein, a cell is said to be altered to express a desired polypeptide or protein when the cell, through genetic manipulation, is made to produce a polypeptide or protein which it normally does not produce or which the cell normally produces at a lower level. One skilled in the art can readily adapt procedures for introducing and expressing either recombinant or synthetic sequences into eukaryotic or prokaryotic cells in order to generate a cell which produces one of the polypeptides or proteins of the present invention.

Any host/vector system can be used to express one or more of the ORFs of the present invention. These include, but are not limited to, eukaryotic hosts such as HeLa cells, Cv-1 cell, COS cells, and Sf9 cells, as well as prokaryotic host such as *E. coli* and *B. subtilis*. The most preferred cells are those which do not normally express the particular polypeptide or protein or which expresses the polypeptide or protein at low natural level.

"Recombinant," as used herein, means that a polypeptide or protein is derived from recombinant (e.g., microbial or mammalian) expression systems. "Microbial" refers to recombinant polypeptides or proteins made in bacterial or fungal (e.g., yeast) expression systems. As a product, "recombinant microbial" defines a polypeptide or protein essentially free of native endogenous substances and unaccompanied by associated native glycosylation. Polypeptides or proteins expressed in most bacterial cultures, e.g., *E. coli*, will be free of glycosylation modifications; polypeptides or proteins expressed in yeast will have a glycosylation pattern different from that expressed in mammalian cells.

"Nucleotide sequence" refers to a heteropolymer of deoxyribonucleotides. Generally, DNA segments encoding the polypeptides and proteins provided by this invention are assembled from fragments of the *Mycoplasma genitalium* genome and short oligonucleotide linkers, or from a series of oligonucleotides, to provide a synthetic gene which is capable of being expressed in a recombinant transcriptional unit comprising regulatory elements derived from a microbial or viral operon.

"Recombinant expression vehicle or vector" refers to a plasmid or phage or virus or vector, for expressing a polypeptide from a DNA (RNA) sequence. The expression vehicle can comprise a transcriptional unit comprising an assembly of (1) a genetic element or elements having a regulatory role in gene expression, for example, promoters or enhancers, (2) a structural or coding sequence which is transcribed into mRNA and translated into protein, and (3) appropriate transcription initiation and termination sequences. Structural units intended for use in yeast or eukaryotic expression systems preferably include a leader sequence enabling extracellular secretion of translated protein by a host cell. Alternatively, where recombinant protein is expressed without a leader or transport sequence, it may include an N-terminal methionine residue. This residue may or may not be subsequently cleaved from the expressed recombinant protein to provide a final product.

"Recombinant expression system" means host cells which have stably integrated a recombinant transcriptional unit into chromosomal DNA or carry the recombinant transcriptional unit extra chromosomally. The cells can be prokaryotic or eukaryotic. Recombinant expression systems as defined herein will express heterologous polypeptides or proteins upon induction of the regulatory elements linked to the DNA segment or synthetic gene to be expressed.

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Mature proteins can be expressed in mammalian cells, yeast, bacteria, or other cells under the control of appropriate promoters. Cell-free translation systems can also be employed to produce such proteins using RNAs derived from the DNA constructs of the present invention. Appropriate cloning and expression vectors for use with prokaryatic and eukaryotic hosts are described by Sambrook, et al., in Molecular Cloning: A Laboratory Manual, Second Edition, Cold Spring Harbor, New York (1989), the disclosure of which is hereby incorporated by reference.

Generally, recombinant expression vectors will include origins of replication and selectable markers permitting transformation of the host cell, e.g., the ampicillin resistance gene of *E. coli* and *S. cerevisiae* TRP1 gene, and a promoter derived from a highly-expressed gene to direct transcription of a downstream structural sequence. Such promoters can be derived from operons encoding glycolytic enzymes such as 3-phosphoglycerate kinase (PGK), a-factor, acid phosphatase, or heat shock proteins, among others. The heterologous structural sequence is assembled in appropriate phase with translation initiation and termination sequences, and preferably, a leader sequence capable of directing secretion of translated protein into the periplasmic space or extracellular medium. Optionally, the heterologous sequence can encode a fusion protein including an N-terminal identification peptide imparting desired characteristics, e.g., stabilization or simplified purification of expressed recombinant product.

Useful expression vectors for bacterial use are constructed by inserting a structural DNA sequence encoding a desired protein together with suitable translation initiation and termination signals in operable reading phase with a

functional promoter. The vector will comprise one or more phenotypic selectable markers and an origin of replication to ensure maintenance of the vector and to, if desirable, provide amplification within the host. Suitable prokaryotic hosts for transformation include *E. coli*, *Bacillus subtilis*, *Salmonella typhimurium* and various species within the genera Pseudomonas, Streptomyces, and Staphylococcus, although others may, also be employed as a matter of choice.

As a representative but nonlimiting example, useful expression vectors for bacterial use can comprise a selectable marker and bacterial origin of replication derived from commercially available plasmids comprising genetic elements of the well known cloning vector pBR322 (ATCC 37017). Such commercial vectors include, for example, pKK223-3 (Pharmacia Fine Chemicals, Uppsala, Sweden) and GEM 1 (Promega Biotec, Madison, WI, USA). These pBR322 "backbone" sections are combined with an appropriate promoter and the structural sequence to be expressed.

Following transformation of a suitable host strain and growth of the host strain to an appropriate cell density, the selected promoter is derepressed by appropriate means (e.g., temperature shift or chemical induction) and cells are cultured for an additional period. Cells are typically harvested by centrifugation, disrupted by physical or chemical means, and the resulting crude extract retained for further purification.

Various mammalian cell culture systems can also be employed to express recombinant protein. Examples of mammalian expression systems include the COS-7 lines of monkey kidney fibroblasts, described by Gluzman, *Cell* 23:175 (1981), and other cell lines capable of expressing a compatible vector, for example, the C127, 3T3, CHO, HeLa and BHK cell lines. Mammalian expression vectors will comprise an origin of replication, a suitable promoter and enhancer, and also any necessary ribosome binding sites, polyadenylation site, splice donor and acceptor sites, transcriptional termination sequences, and 5' flanking nontranscribed sequences. DNA sequences derived from the SV40 viral genome, for example, SV40 origin, early promoter, enhancer, splice, and polyadenylation sites may be used to provide the required nontranscribed genetic elements.

Recombinant polypeptides and proteins produced in bacterial culture is usually isolated by initial extraction from cell pellets, followed by one or more salting-out, aqueous ion exchange or size exclusion chromatography steps. Protein refolding steps can be used, as necessary, in completing configuration of the mature protein. Finally, high performance liquid chromatography (HPLC) can be employed for final purification steps. Microbial cells employed in expression of proteins can be disrupted by any convenient method, including freeze-thaw cycling, sonication, mechanical disruption, or use of cell lysing agents.

The present invention further includes isolated polypeptides, proteins and nucleic acid molecules which are substantially equivalent to those herein described. As used herein, substantially equivalent can refer both to nucleic acid and amino acid sequences, for example a mutant sequence, that varies from a reference sequence by one or more substitutions, deletions, or additions, the net effect of which does not result in an adverse functional dissimilarity between reference and subject sequences. For purposes of the present invention, sequences having equivalent biological activity, and equivalent expression characteristics are considered substantially equivalent. For purposes of determining equivalence, truncation of the mature sequence should be disregarded.

The invention further provides methods of obtaining homologs from other strains of *Mycoplasma genitalium*, of the fragments of the *Mycoplasma genitalium* genome of the present invention and homologs of the proteins encoded by the ORFs of the present invention. As used herein, a sequence or protein of *Mycoplasma genitalium* is defined as a homolog of a fragment of the *Mycoplasma genitalium* genome or a protein encoded by one of the ORFs of the present invention, if it shares significant homology to one of the fragments of the *Mycoplasma genitalium* genome of the present invention or a protein encoded by one of the ORFs of the present invention. Specifically, by using the sequence disclosed herein as a probe or as primers, and techniques such as PCR cloning and colony/plaque hybridization, one skilled in the art can obtain homologs.

As used herein, two nucleic acid molecules or proteins are said to "share significant homology" if the two contain regions which process greater than 85% sequence (amino acid or nucleic acid) homology.

Region specific primers or probes derived from the nucleotide sequence provided in SEQ ID NO:1 or from a nucleotide sequence at least 99.9% identical to SEQ ID NO:1 can be used to prime DNA synthesis and PCR amplification, as well as to identify colonies containing cloned DNA encoding a homolog using known methods (Innis *et al.*, *PCR Protocols*, Academic Press, San Diego, CA (1990)).

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When using primers derived from SEQ ID NO:1 or from a nucleotide sequence at least 99.9% identical to SEQ ID NO:1, one skilled in the art will recognize that by employing high stringency conditions (e.g., annealing at 50-60°C) only sequences which are greater than 75% homologous to the primer will be amplified. By employing lower stringency conditions (e.g., annealing at 35-37°C), sequences which are greater than 40-50% homologous to the primer will also be amplified.

When using DNA probes derived from SEQ ID NO:1 or from a nucleotide sequence at least 99.9% identical to SEQ ID NO:1 for colony/plaque hybridization, one skilled in the art will recognize that by employing high stringency conditions (e.g., hybridizing at 50-65°C in 5X SSPC and 50% formamide, and washing at 50-65°C in 0.5X SSPC), sequences having regions which are greater than 90% homologous to the probe can be obtained, and that by employing lower stringency conditions (e.g., hybridizing at 35-37°C in 5X SSPC and 40-45% formamide, and washing at 42°C in SSPC), sequences having regions which are greater than 35-45% homologous to the probe will be obtained.

Any organism can be used as the source for homologs of the present invention so long as the organism naturally expresses such a protein or contains genes encoding the same. The most preferred organism for isolating homologs are bacterias which are closely related to *Mycoplasma genitalium*.

Uses for the Compositions of the Invention

Each ORF provided in Table 1(a), 1(b) and 1(c) was assigned to biological role categories adapted from Riley, M., *Microbiology Reviews 57(4)*:862 (1993)). This allows the skilled artisan to determine a use for each identified coding sequence. Tables 1(a), 1(b) and 1(c) further provides an identification of the type of polypeptide which is encoded for by each ORF. As a result, one skilled in the art can use the polypeptides of the present invention for commercial, therapeutic and industrial purposes consistent with the type of putative identification of the polypeptide.

Such identifications permit one skilled in the art to use the *Mycoplasma genitalium* ORFs in a manner similar to the known type of sequences for which the identification is made; for example, to ferment a particular sugar source or to produce a particular metabolite. (For a review of enzymes used within the commercial industry, *see Biochemical Engineering and Biotechnology Handbook* 2nd, eds. Macmillan Publ. Ltd., NY (1991) and Biocatalysts in Organic Syntheses, ed. J. Tramper *et al.*, Elsevier Science Publishers, Amsterdam, The Netherlands (1985)).

1. Biosynthetic Enzymes

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Open reading frames encoding proteins involved in mediating the catalytic reactions involved in intermediary and macromolecular metabolism, the biosynthesis of small molecules, cellular processes and other functions includes enzymes involved in the degradation of the intermediary products of metabolism, enzymes involved in central intermediary metabolism, enzymes involved in respiration, both aerobic and anaerobic, enzymes involved in fermentation, enzymes involved in ATP proton motor force conversion, enzymes involved in broad regulatory function, enzymes involved in amino acid synthesis, enzymes involved in nucleotide synthesis, enzymes involved in cofactor and vitamin synthesis, can be used for industrial biosynthesis. The various metabolic pathways present in *Mycoplasma* can be identified based on absolute nutritional requirements as well as by examining the various enzymes identified in Table 1(a), 1(b) and 1(c).

Identified within the category of intermediary metabolism, a number of the proteins encoded by the identified ORFs in Tables 1(a), 1(b) and 1(c) are particularly involved in the degradation of intermediary metabolites as well as non-macromolecular metabolism. Some of the enzymes identified include amylases, glucose oxidases, and catalase.

Proteolytic enzymes are another class of commercially important enzymes. Proteolytic enzymes find use in a number of industrial processes including the processing of flax and other vegetable fibers, in the extraction, clarification and depectinization of fruit juices, in the extraction of vegetables oil and in the maceration of fruits and vegetables to give unicellular fruits. A detailed review of the proteolytic enzymes used in the food industry is provided by Rombouts et al., Symbiosis 21:79 (1986) and Voragen et al. in Biocatalyst in Agricultural Biotechnology, edited J.R. Whitaker et al., American Chemical Society Symposium Series 389:93 (1989)).

The metabolism of glucose, galactose, fructose and xylose are important parts of the primary metabolism of *Mycoplasma*. Enzymes involved in the degradation of these sugars can be used in industrial fermentation. Some of the important sugar transforming enzymes, from a commercial viewpoint, include sugar isomerases such as glucose isomerase. Other metabolic enzymes have found commercial use such as glucose oxidases which produces ketogulonic acid (KGA). KGA is an intermediate in the commercial production of ascorbic acid using the Reichstein's procedure (see Krueger et al., Biotechnology 6(A), Rhine, H.J. et al., eds., Verlag Press, Weinheim, Germany (1984)).

Glucose oxidase (GOD) is commercially available and has been used in purified form as well as in an immobilized form for the deoxygenation of beer. See Hartmeir et al., Biotechnology Letters 1:21 (1979). The most important application of GOD is the industrial scale fermentation of gluconic acid. Market for gluconic acids which are used in the detergent, textile, leather, photographic, pharmaceutical, food, feed and concrete industry (see Bigelis in Gene Manipulations and Fungi, Benett, J.W. et al., eds., Academic Press, New York (1985), p. 357). In addition to industrial applications, GOD has found applications in medicine for quantitative determination of glucose in body fluids recently in biotechnology for analyzing syrups from starch and cellulose hydrosylates. See Owusu et al., Biochem. et Biophysica. Acta. 872:83 (1986).

The main sweetener used in the world today is sugar which comes from sugar beets and sugar cane. In the field of industrial enzymes, the glucose isomerase process shows the largest expansion in the market today. Initially, soluble enzymes were used and later immobilized enzymes were developed (Krueger et al., Biotechnology, The Textbook of Industrial Microbiology, Sinauer Associated Incorporated, Sunderland, Massachusetts (1990)). Today, the use of glucose-produced high fructose syrups is by far the largest industrial business using immobilized enzymes. A review of the industrial use of these enzymes is provided by Jorgensen, Starch 40:307 (1988).

Proteinases, such as alkaline serine proteinases, are used as detergent additives and thus represent one of the largest volumes of microbial enzymes used in the industrial sector. Because of their industrial importance, there is a large body of published and unpublished information regarding the use of these enzymes in industrial processes. (See Faultman et al., Acid Proteases Structure Function and Biology, Tang, J., ed., Plenum Press, New York (1977) and Godfrey et al., Industrial Enzymes, MacMillan Publishers, Surrey, UK (1983) and Hepner et al., Report Industrial Enzymes by 1990, Hel Hepner & Associates, London (1986)).

Another class of commercially usable proteins of the present invention are the microbial lipases identified in Tables 1(a), 1(b) and 1(c) (see Macrae et al., Philosophical Transactions of the Chiral Society of London 310:227 (1985) and Poserke, Journal of the American Oil Chemist Society 61:1758 (1984). A major use of lipases is in the fat and oil industry for the production of neutral glycerides using lipase catalyzed inter-esterification of readily available triglycerides. Application of lipases include the use as a detergent additive to facilitate the removal of fats from fabrics in the course of the washing procedures.

The use of enzymes, and in particular microbial enzymes, as catalyst for key steps in the synthesis of complex organic molecules is gaining popularity at a great rate. One area of great interest is the preparation of chiral intermediates. Preparation of chiral intermediates is of interest to a wide range of synthetic chemists particularly those scientists involved with the preparation of new pharmaceuticals, agrochemicals, fragrances and flavors. (See Davies et al., Recent Advances in the Generation of Chiral Intermediates Using Enzymes, CRC Press, Boca Raton, Florida (1990)). The following reactions catalyzed by enzymes are of interest to organic chemists: hydrolysis of carboxylic acid esters, phosphate esters, amides and nitriles, esterification reactions, trans-esterification reactions, synthesis of amides, reduction of alkanones and oxoalkanates, oxidation of alcohols to carbonyl compounds, oxidation of sulfides to sulfoxides, and carbon bond forming reactions such as the aldol reaction. When considering the use of an enzyme encoded by one of the ORFs of the present invention for biotransformation and organic synthesis it is sometimes necessary to consider the respective advantages and disadvantages of using a microorganism as opposed to an isolated enzyme. Pros and cons of using a whole cell system on the one hand or an isolated partially purified enzyme on the other hand, has been described in detail by Bud et al., Chemistry in Britain (1987), p. 127.

Amino transferases, enzymes involved in the biosynthesis and metabolism of amino acids, are useful in the catalytic production of amino acids. The advantages of using microbial based enzyme systems is that the amino transferase enzymes catalyze the stereo-selective synthesis of only *l*-amino acids and generally possess uniformly high catalytic rates. A description of the use of amino transferases for amino acid production is provided by Roselle-David, *Methods of Enzymology 136*:479 (1987).

2. Generation of Antibodies

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As described here, the proteins of the present invention, as well as homologs thereof, can be used in a variety procedures and methods known in the art which are currently applied to other proteins. The proteins of the present invention can further be used to generate an antibody which selectively binds the protein. Such antibodies can be either monoclonal or polyclonal antibodies, as well fragments of these antibodies, and humanized forms.

The invention further provides antibodies which selectively bind to one of the proteins of the present invention and hybridomas which produce these antibodies. A hybridoma is an immortalized cell line which is capable of secreting a specific monoclonal antibody.

In general, techniques for preparing polyclonal and monoclonal antibodies as well as hybridomas capable of producing the desired antibody are well known in the art (Campbell, A.M., Monoclonal Antibody Technology: Laboratory Techniques in Biochemistry and Molecular Biology, Elsevier Science Publishers, Amsterdam, The Netherlands (1984); St. Groth et al., J. Immunol. Method 35:1-21 (1980); Kohler and Milstein, Nature 256:495-497 (1975)), the trioma technique, the human B-cell hybridoma technique (Kozbor et al., Immunology Today 4:72 (1983); Cole et al., in Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc. (1985), pp. 77-96).

Any animal (mouse, rabbit, etc.) which is known to produce antibodies can be immunized with the pseudogene polypeptide. Methods for immunization are well known in the art. Such methods include subcutaneous or interperitoneal injection of the polypeptide. One skilled in the art will recognize that the amount of the protein encoded by the ORF of the present invention used for immunization will vary based on the animal which is immunized, the antigenicity of the peptide and the site of injection.

The protein which is used as an immunogen may be modified or administered in an adjuvant in order to increase the protein's antigenicity. Methods of increasing the antigenicity of a protein are well known in the art and include, but are not limited to coupling the antigen with a heterologous protein (such as globulin or β -galactosidase) or through the inclusion of an adjuvant during immunization.

For monoclonal antibodies, spleen cells from the immunized animals are removed, fused with myeloma cells, such as SP2/0-Ag14 myeloma cells, and allowed to become monoclonal antibody producing hybridoma cells.

Any one of a number of methods well known in the art can be used to identify the hybridoma cell which produces an antibody with the desired characteristics. These include screening the hybridomas with an ELISA assay, western blot analysis, or radioimmunoassay (Lutz et al., Exp. Cell Res. 175:109-124 (1988)).

Hybridomas secreting the desired antibodies are cloned and the class and subclass is determined using proce-

dures known in the art (Campbell, A.M., Monoclonal Antibody Technology: Laboratory Techniques in Biochemistry and Molecular Biology, Elsevier Science Publishers, Amsterdam, The Netherlands (1984)).

Techniques described for the production of single chain antibodies (U.S. Patent 4,946,778) can be adapted to produce single chain antibodies to proteins of the present invention.

For polyclonal antibodies, antibody containing antisera is isolated from the immunized animal and is screened for the presence of antibodies with the desired specificity using one of the above-described procedures.

The present invention further provides the above-described antibodies in detectably labelled form. Antibodies can be detectably labelled through the use of radioisotopes, affinity labels (such as biotin, avidin, etc.), enzymatic labels (such as horseradish peroxidase, alkaline phosphatase, etc.) fluorescent labels (such as FITC or rhodamine, etc.), paramagnetic atoms, etc. Procedures for accomplishing such labelling are well-known in the art, for example see (Sternberger, L.A. et al., J. Histochem. Cytochem. 18:315 (1970); Bayer, E.A. et al., Meth. Enzym. 62:308 (1979); Engval, E. et al., Immunol. 109:129 (1972); Goding, J.W. J. Immunol. Meth. 13:215 (1976)).

The labeled antibodies of the present invention can be used for *in vitro*, *in vivo*, and *in situ* assays to identify cells or tissues in which a fragment of the *Mycoplasma genitalium* genome is expressed.

The present invention further provides the above-described antibodies immobilized on a solid support. Examples of such solid supports include plastics such as polycarbonate, complex carbohydrates such as agarose and sepharose, acrylic resins and such as polyacrylamide and latex beads. Techniques for coupling antibodies to such solid supports are well known in the art (Weir, D.M. et al., "Handbook of Experimental Immunology" 4th Ed., Blackwell Scientific Publications, Oxford, England, Chapter 10 (1986); Jacoby, W.D. et al., Meth. Enzym. 34 Academic Press, N.Y. (1974)). The immobilized antibodies of the present invention can be used for *in vitro*, *in vivo*, and *in situ* assays as well as for immunoaffinity purification of the proteins of the present invention.

3. Diagnostic Assays and Kits

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The present invention further provides methods to identify the expression of one of the ORFs of the present invention, or homolog thereof, in a test sample, using one of the DFs or antibodies of the present invention.

In detail, such methods comprise incubating a test sample with one or more of the antibodies or one or more of the DFs of the present invention and assaying for binding of the DFs or antibodies to components within the test sample.

Conditions for incubating a DF or antibody with a test sample vary. Incubation conditions depend on the format employed in the assay, the detection methods employed, and the type and nature of the DF or antibody used in the assay. One skilled in the art will recognize that any one of the commonly available hybridization, amplification or immunological assay formats can readily be adapted to employ the DFs or antibodies of the present invention. Examples of such assays can be found in Chard, T., An Introduction to Radioimmunoassay and Related Techniques, Elsevier Science Publishers, Amsterdam, The Netherlands (1986); Bullock, G.R. et al., Techniques in Immunocytochemistry, Academic Press, Orlando, FL Vol. 1 (1982), Vol. 2 (1983), Vol. 3 (1985); Tijssen, P., Practice and Theory of Enzyme Immunoassays: Laboratory Techniques in Biochemistry and Molecular Biology, Elsevier Science Publishers, Amsterdam, The Netherlands (1985).

The test samples of the present invention include cells, protein or membrane extracts of cells, or biological fluids such as sputum, blood, serum, plasma, or urine. The test sample used in the above-described method will vary based on the assay format, nature of the detection method and the tissues, cells or extracts used as the sample to be assayed. Methods for preparing protein extracts or membrane extracts of cells are well known in the art and can be readily be adapted in order to obtain a sample which is compatible with the system utilized.

In another embodiment of the present invention, kits are provided which contain the necessary reagents to carry out the assays of the present invention.

Specifically, the invention provides a compartmentalized kit to receive, in close confinement, one or more containers which comprises: (a) a first container comprising one of the DFs or antibodies of the present invention; and (b) one or more other containers comprising one or more of the following: wash reagents, reagents capable of detecting presence of a bound DF or antibody.

In detail, a compartmentalized kit includes any kit in which reagents are contained in separate containers. Such containers include small glass containers, plastic containers or strips of plastic or paper. Such containers allows one to efficiently transfer reagents from one compartment to another compartment such that the samples and reagents are not cross-contaminated, and the agents or solutions of each container can be added in a quantitative fashion from one compartment to another. Such containers will include a container which will accept the test sample, a container which contains the antibodies used in the assay, containers which contain wash reagents (such as phosphate buffered saline, Tris-buffers, etc.), and containers which contain the reagents used to detect the bound antibody or DF.

Types of detection reagents include labelled nucleic acid probes, labelled secondary antibodies, or in the alternative, if the primary antibody is labelled, the enzymatic, or antibody binding reagents which are capable of reacting with the labelled antibody. One skilled in the art will readily recognize that the disclosed DFs and antibodies of the present invention can be readily incorporated into one of the established kit formats which are well known in the art.

4. Screening Assay for Binding Agents

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Using the isolated proteins of the present invention, the present invention further provides methods of obtaining and identifying agents which bind to a protein encoded by one of the ORFs of the present invention or to one of the fragments and the *Mycoplasma* genome herein described.

In detail, said method comprises the steps of:

- (a) contacting an agent with an isolated protein encoded by one of the ORFs of the present invention, or an isolated fragment of the *Mycoplasma* genome; and
- (b) determining whether the agent binds to said protein or said fragment.

The agents screened in the above assay can be, but are not limited to, peptides, carbohydrates, vitamin derivatives, or other pharmaceutical agents. The agents can be selected and screened at random or rationally selected or designed using protein modeling techniques.

For random screening, agents such as peptides, carbohydrates, pharmaceutical agents and the like are selected at random and are assayed for their ability to bind to the protein encoded by the ORF of the present invention.

Alternatively, agents may be rationally selected or designed. As used herein, an agent is said to be "rationally selected or designed" when the agent is chosen based on the configuration of the particular protein. For example, one skilled in the art can readily adapt currently available procedures to generate peptides, pharmaceutical agents and the like capable of binding to a specific peptide sequence in order to generate rationally designed antipeptide peptides, for example see Hurby *et al.*, Application of Synthetic Peptides: Antisense Peptides," In *Synthetic Peptides, A User's Guide*, W.H. Freeman, NY (1992), pp. 289-307, and Kaspczak *et al.*, *Biochemistry 28*:9230-8 (1989), or pharmaceutical agents, or the like.

In addition to the foregoing, one class of agents of the present invention, as broadly described, can be used to control gene expression through binding to one of the ORFs or EMFs of the present invention. As described above, such agents can be randomly screened or rationally designed/selected. Targeting the ORF or EMF allows a skilled artisan to design sequence specific or element specific agents, modulating the expression of either a single ORF or multiple ORFs which rely on the same EMF for expression control.

One class of DNA binding agents are agents which contain base residues which hybridize or form a triple helix formation by binding to DNA or RNA. Such agents can be based on the classic phosphodiester, ribonucleic acid backbone, or can be a variety of sulfhydryl or polymeric derivatives which have base attachment capacity.

Agents suitable for use in these methods usually contain 20 to 40 bases and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al., Nucl. Acids Res 6:3073 (1979); Cooney et al., Science 241:456 (1988); and Dervan et al., Science 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, J. Neurochem. 56:560 (1991); Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression, CRC Press, Boca Raton, FL (1988)). Triple helix-formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be effective in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide and other DNA binding agents.

Agents which bind to a protein encoded by one of the ORFs of the present invention can be used as a diagnostic agent, in the control of bacterial infection by modulating the activity of the protein encoded by the ORF. Agents which bind to a protein encoded by one of the ORFs of the present invention can be formulated using known techniques to generate a pharmaceutical composition for use in controlling *Mycoplasma* growth and infection.

5 5. Vaccine and Pharmaceutical Composition

The present invention further provides pharmaceutical agents which can be used to modulate the growth of *Myco-plasma genitalium*, or another related organism, *in vivo* or *in vitro*. As used herein, a "pharmaceutical agent" is defined as a composition of matter which can be formulated using known techniques to provide a pharmaceutical compositions. As used herein, the "pharmaceutical agents of the present invention" refers the pharmaceutical agents which are derived from the proteins encoded by the ORFs of the present invention or are agents which are identified using the herein described assays.

As used herein, a pharmaceutical agent is said to "modulated the growth of *Mycoplasma sp.*, or a related organism, *in vivo* or *in vitro*," when the agent reduces the rate of growth, rate of division, or viability of the organism in question. The pharmaceutical agents of the present invention can modulate the growth of an organism in many fashions, although an understanding of the underlying mechanism of action is not needed to practice the use of the pharmaceutical agents of the present invention. Some agents will modulate the growth by binding to an important protein thus blocking the biological activity of the protein, while other agents may bind to a component of the outer surface of the organism blocking attachment or rendering the organism more prone to act the bodies nature immune system. Alternative

tively, the agent may be comprise a protein encoded by one of the ORFs of the present invention and serve as a vaccine. The development and use of a vaccine based on outer membrane components, such as the LPS, are well known in the art.

As used herein, a "related organism" is a broad term which refers to any organism whose growth can be modulated by one of the pharmaceutical agents of the present invention. In general, such an organism will contain a homolog of the protein which is the target of the pharmaceutical agent or the protein used as a vaccine. As such, related organism do not need to be bacterial but may be fungal or viral pathogens.

The pharmaceutical agents and compositions of the present invention may be administered in a convenient manner such as by the oral, topical, intravenous, intraperitoneal, intramuscular, subcutaneous, intranasal or intradermal routes. The pharmaceutical compositions are administered in an amount which is effective for treating and/or prophylaxis of the specific indication. In general, they are administered in an amount of at least about 10 μ g/kg body weight and in most cases they will be administered in an amount not in excess of about 8 mg/Kg body weight per day. In most cases, the dosage is from about 10 μ g/kg to about 1 mg/kg body weight dally, taking into account the routes of administration, symptoms, etc.

The agents of the present invention can be used in native form or can be modified to form a chemical derivative. As used herein, a molecule is said to be a "chemical derivative" of another molecule when it contains additional chemical moieties not normally a part of the molecule. Such moieties may improve the molecule's solubility, absorption, biological half life, etc. The moieties may alternatively decrease the toxicity of the molecule, eliminate or attenuate any undesirable side effect of the molecule, etc. Moieties capable of mediating such effects are disclosed in *Remington's Pharmaceutical Sciences* (1980).

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For example, a change in the immunological character of the functional derivative, such as affinity for a given antibody, is measured by a competitive type immunoassay. Changes in immunomodulation activity are measured by the appropriate assay. Modifications of such protein properties as redox or thermal stability, biological half-life, hydrophobicity, susceptibility to proteolytic degradation or the tendency to aggregate with carriers or into multimers are assayed by methods well known to the ordinarily skilled artisan.

The therapeutic effects of the agents of the present invention may be obtained by providing the agent to a patient by any suitable means (i.e., inhalation, intravenously, intramuscularly, subcutaneously, enterally, or parenterally). It is preferred to administer the agent of the present invention so as to achieve an effective concentration within the blood or tissue in which the growth of the organism is to be controlled.

To achieve an effective blood concentration, the preferred method is to administer the agent by injection. The administration may be by continuous infusion, or by single or multiple injections.

In providing a patient with one of the agents of the present invention, the dosage of the administered agent will vary depending upon such factors as the patient's age, weight, height, sex, general medical condition, previous medical history, etc. In general, it is desirable to provide the recipient with a dosage of agent which is in the range of from about 1 pg/kg to 10 mg/kg (body weight of patient), although a lower or higher dosage may be administered. The therapeutically effective dose can be lowered by using combinations of the agents of the present invention or another agent.

As used herein, two or more compounds or agents are said to be administered "in combination" with each other when either (1) the physiological effects of each compound, or (2) the serum concentrations of each compound can be measured at the same time. The composition of the present invention can be administered concurrently with, prior to, or following the administration of the other agent.

The agents of the present invention are intended to be provided to recipient subjects in an amount sufficient to decrease the rate of growth (as defined above) of the target organism.

The administration of the agent(s) of the invention may be for either a "prophylactic" or "therapeutic" purpose. When provided prophylactically, the agent(s) are provided in advance of any symptoms indicative of the organisms growth. The prophylactic administration of the agent(s) serves to prevent, attenuate, or decrease the rate of onset of any subsequent infection. When provided therapeutically, the agent(s) are provided at (or shortly after) the onset of an indication of infection. The therapeutic administration of the compound(s) serves to attenuate the pathological symptoms of the infection and to increase the rate of recovery.

The agents of the present invention are administered to the mammal in a pharmaceutically acceptable form and in a therapeutically effective concentration. A composition is said to be "pharmacologically acceptable" if its administration can be tolerated by a recipient patient. Such an agent is said to be administered in a "therapeutically effective amount" if the amount administered is physiologically significant. An agent is physiologically significant if its presence results in a detectable change in the physiology of a recipient patient.

The agents of the present invention can be formulated according to known methods to prepare pharmaceutically useful compositions, whereby these materials, or their functional derivatives, are combined in admixture with a pharmaceutically acceptable carrier vehicle. Suitable vehicles and their formulation, inclusive of other human proteins, e.g., human serum albumin, are described, for example, in *Remington's Pharmaceutical Sciences* (16th ed., Osol, A., Ed., Mack, Easton PA (1980)). In order to form a pharmaceutically acceptable composition suitable for effective administration, such compositions will contain an effective amount of one or more of the agents of the present invention, together

with a suitable amount of carrier vehicle.

Additional pharmaceutical methods may be employed to control the duration of action. Control release preparations may be achieved through the use of polymers to complex or absorb one or more of the agents of the present invention. The controlled delivery may be exercised by selecting appropriate macromolecules (for example polyesters, polyamino acids, polyvinyl, pyrrolidone, ethylenevinylacetate, methylcellulose, carboxymethylcellulose, or protamine, sulfate) and the concentration of macromolecules as well as the methods of incorporation in order to control release. Another possible method to control the duration of action by controlled release preparations is to incorporate agents of the present invention into particles of a polymeric material such as polyesters, polyamino acids, hydrogels, poly(lactic acid) or ethylene vinylacetate copolymers. Alternatively, instead of incorporating these agents into polymeric particles, it is possible to entrap these materials in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization, for example, hydroxymethylcellulose or gelatine-microcapsules and poly(methylmethacylate) microcapsules, respectively, or in colloidal drug delivery systems, for example, liposomes, albumin microspheres, microemulsions, nanoparticles, and nanocapsules or in macroemulsions. Such techniques are disclosed in *Remington's Pharmaceutical Sciences* (1980).

The invention further provides a pharmaceutical pack or kit comprising one or more containers filled with one or more of the ingredients of the pharmaceutical compositions of the invention. Associated with such container(s) can be a notice in the form prescribed by a governmental agency regulating the manufacture, use or sale of pharmaceuticals or biological products, which notice reflects approval by the agency of manufacture, use or sale for human administration. In addition, the agents of the present invention may be employed in conjunction with other therapeutic compounds.

Experimental

Example 1

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Overview of Experimental Design and Methods

1. Shotgun Sequencing Strategy

The overall strategy for a shotgun approach to whole genome sequencing is outlined in Table 3. The theory of shotgun sequencing follows from the application of the equation for the Poisson distribution $p_x = m^x e/x!$, where x is the number of occurrences of an event and m is the mean number of occurrences. To determine the probability that any given base is not sequenced after a certain amount of random sequence has been generated, if L is the genome length, n is the number of clone insert ends sequenced, and w is the sequencing read length, then m = nw/L, and the probability that no clone originates at any of the w bases preceding a given base, i.e., the probability that the base is not sequenced, id $p_0 = e^{-m}$. Using the fold coverage as the unit form, one sees that after 580 kb of sequence has been randomly generated, m = 1, representing 1X coverage. In this case, $p_0 = e^{-1} = 37$, thus approximately 37% is unsequenced. A 5X coverage (approximately 3150 clones sequenced from both insert ends) yields $p_0 = e^{-5} = 0.0067$, or .67% unsequenced. The total gap length is Le^{-m}, and the average gap size is L/n. 5X coverage would leave about 48 gaps averaging about 80 bp in size. The treatment is essentially that of Lander and Waterman. Table 4 illustrates a computer simulation of a random sequencing experiment for coverage of a 580 kb genome with an average fragment size of 400 bp.

2. Random Library Construction

In order to approximate the random model described above during actual sequencing, a nearly ideal library of cloned genomic fragment is required. *M. genitalium* genomic chromosomal DNA was mechanically sheared, digested with BAL31 nuclease to produce blunt-ends, and size-fractionated by agarose gel electrophoresis. Fragments in the 2.0 kb size range were excised and recovered. These fragments were ligated to Smal-cut, phophatased pUC18 vector and the ligated products were fractionated on an agarose gel. The linear vector plus insert band was excised and recovered. The ends of the linear recombinant molecules were repaired with T4 polymerase treatment and the molecules were then ligated into circles. This two-stage procedure resulted in a molecularly random collection of single-insert plasmid recombinants with minimal contamination from double-insert plasmid recombinants with minimal contamination from double-insert chimeras (<1%) or free vector (<1%). Deviation from randomness is most likely to occur during cloning. *E. coli* host cells deficient in all recombinant and restriction functions were used to prevent rearrangements, deletions, and loss of clones by restriction. Transformed cells were plated directly on antibiotic diffusion plates to avoid the usual broth recovery phase which allows multiplication and selection of the most rapidly growing cells. All colonies were picked for template preparation regardless of size. Only clones lost due to "poison" DNA or deleterious gene products would be deleted from the library, resulting in a slight increase in gap number over that expected.

In order to evaluate the quality of the M. genitalium random insert library, sequence data was obtained from approx-

imately 2000 templates using the M13F primer. The random sequence fragments were assembled using The Institute for Genomic Research (TIGR) autoassembler software after obtaining 500, 1000, 1500, and 2000 sequence fragments, and the number of unique assembled base pairs was determined. The progression of assembly was plotted using the actual data obtained from the assembly of up to 2000 sequence fragments and compared the data that is provided in the ideal plot. There was essentially no deviation of the actual assembly data from the ideal plot, indicating that we had constructed close to an ideal random library with minimal contamination from double insert chimeras and free of vector.

3. Random DNA Sequencing

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Five-thousand seven hundred and sixty (5,760) plasmid templates were prepared using a "boiler bead" preparation method developed in collaboration with AGTC (Gaithersburg, MD), as suggested by the manufacturer. The AGTC method is performed in a 96-well format for all stages of DNA preparation from bacterial growth through final DNA purification. Template concentration was determined using Hoechst Dye and a Millipore Cytofluor. DNA concentrations were not adjusted and low-yielding templates were identified and not sequenced where possible. Sequencing reactions were carried out on plasmid templates using the AB Catalyst Lab station or Perkin-Elmer 9600 Thermocyclers with Applied Biosystems PRISM Ready Reaction Dye Primer Cycle Sequencing Kits for the M13 forward (-21M13) and the M13 reverse (RP1) primers. Dye terminator sequencing reactions were carried out on the lambda templates on a Perkin-Elmer 9600 Thermocyler using the Applied Biosystems Ready Reaction Dye Terminator Cycle Sequencing kits. Nine-thousand eight hundred and forty-six (9,846) sequencing reactions were performed during the random phase of the project by 4 individuals using an average of 10 AB373 DNA Sequencers over a 2 month period. All sequencing reactions were analyzed using the Stretch modification of the AB373, primarily using a 36cm well-to-read distance. The overall sequencing success rate for M13-21 sequences was 88% and 84% for M13RP1 sequences. The average usable read length for M13-21 sequences was 485 and 441 for M13RP1 sequences.

The art has described the value of using sequence from both ends of sequencing templates to facilitate ordering of contigs in shotgun assembly projects. A skilled artisan must balance the desirability of both-end sequencing (including the reduced cost of lower total number of templates) against shorter read-lengths and lower success rates for sequencing reactions performed with the M13RP1 (reverse) primer compared to the M13-21 (forward) primer. For this project, essentially all of the templates were sequenced from both ends.

4. Protocol for Automated Cycle Sequencing

The sequencing consisted of using five (5) ABI Catalyst robots and ten (10) ABI 373 Automated DNA Sequencers. The Catalyst robot is a publicly available sophisticated pipetting and temperature control robot which has been developed specifically for DNA sequencing reactions. The Catalyst combines pre-aliquoted templates and reaction mixes consisting of deoxy- and dideoxynucleotides, the *Taq* thermostable DNA polymerase, fluorescently-labelled sequencing primers, and reaction buffer. Reaction mixes and templates were combined in the wells of an aluminum 96-well thermocycling plate. Thirty consecutive cycles of linear amplification (e.g., one primer synthesis) steps were performed including denaturation, annealing of primer and template, and extension of DNA synthesis. A heated lid with rubber gaskets on the thermocycling plate prevented evaporation without the need for an oil overlay.

Two sequencing protocols were used: dye-labelled primers and dye-labelled dideoxy chain terminators. The shot-gun sequencing involves use of four dye-labelled sequencing primers, one for each of the four terminator nucleotide. Each dye-primer is labelled with a different fluorescent dye, permitting the four individual reactions to be combined into one lane of the 373 DNA Sequencer for electrophoresis, detection, and base-calling. ABI currently supplies pre-mixed reaction mixes in bulk packages containing all the necessary non-template reagents for sequencing. Sequencing can be done with both plasmid and PCR-generated templates with both dye-primers and dye-terminators with approximately equal fidelity, although plasmid templates generally give longer usable sequences.

Thirty-two reactions were loaded per 373 Sequencer each day, for a total of 960 samples. Electrophoresis was run overnight following the manufacture's protocols, and the data was collected for twelve hours. Following electrophoresis and fluorescence detection, the ABI 373 performs automatic lane tracking and base-calling. The lane-tracking was confirmed visually. Each sequence electropherogram (or fluorescence lane trace) was inspected visually and assessed for quality. Trailing sequences of low quality were removed and the sequence itself was loaded via software a Sybase database (archived daily to a 8mm tape). Leading vector polylinker sequence was removed automatically by software program. The average edited lengths of sequences from the ABI 373 Sequencers converted to Stretch Liners were approximately 460 bp.

Informatics

1. Data Management

A number of information management systems (LIMS) for a large-scale sequencing lab have been developed. A system was used which allowed an automated data flow wherever possible to reduce user error. The system used to collect and assemble the sequence information obtained is centered upon a relational data management system built using the Sybase RDBMS. The database is designed to store and correlate all information collected during the entire operation from template preparation to final analysis of the genome. Because the raw output of the AB 373 Sequencers is based on a Macintosh platform and the data management system chosen is based on a Unix platform, it was necessary to design and implement a variety of multi-user, client server applications which allow the raw data as well as analysis results to flow seamlessly into the database with a minimum of user effort.

2. Assembly

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The sequence data from 8,472 sequence fragments was used to assemble the M. genitalium genome. The assembly was performed by using a new assembly engine (TIGR Assembler - previously designated ASMG) developed at TIGR. The TIGR Assembler simultaneously clusters and assembles fragments of the genome. In order to obtain the necessary speed, the TIGR Assembler builds a hash table of 10bp oligonucleotide subsequences to generate a list of potential sequence fragment. The number of potential overlaps for each fragment determines which fragments are likely to fall into repetitive elements. Beginning with a single seed sequence fragment, the TIGR Assembler extends the current contig by attempting to add the best matching fragment based on oligonucleotide content. The current contig and candidate fragment are aligned using a modified version of the Smith-Waterman algorithm which provides for optimal gap alignments. The current contig is extended by the fragment only if strict criteria for the quality of the match are met. The match criteria include the minimum length of overlap, the maximum length of an unmatched end, and the minimum percentage match. These criteria are automatically lowered by the TIGR Assembler in regions of minimal coverage and raised in regions with a good chance of containing repetitive elements. Potentially chimeric fragments and fragments representing the boundaries of repetitive elements are often rejected based on partial mismatches at the ends of alignments and excluded from the current contig. The TIGR Assembler is designed to take advantage of clone size information coupled with sequencing from both ends of each template. The TIGR Assembler enforces the constraint that sequence fragments from two ends of the same template point toward one another in the contig and are located within a certain range of base pairs (definable for each clone based on the known clone size range for a given library). Assembly of the 8,472 sequence fragments of M. genitalium required 10 hours of CPU time on a SPARCenter 2000. All contigs were loaded into a Sybase structure representing the location of each fragment in the contig and extensive information about the consensus sequence itself. The result of this process was approximately 40 contigs ordered into 2 groups (See below). Because of the high stringency of the TIGR Assembler process it was found to be useful to perform a FASTA (GRASTA) alignment of all contigs built by the TIGR Assembler process against each other. In this way additional overlaps were detected which enabled compression of the data set into 26 contigs in 2 groups.

40 Achieving Closure

The complete genome sequence was obtained by sequencing across the gaps between contigs. While gap filling has occupied a major portion of the time and expense of other genome sequencing projects, it was minimal in the present invention. This was primarily due to 1) saturation of the genome as a result of the number of random clones and sequencing reactions performed, 2) the longer read lengths obtained from the Stretch Liners, 3) the anchored ends which were obtain for joining contigs, and 4) the overall capacity and efficiency of the high throughput sequencing facility.

Gaps occurred on a predicted random basis, as shown in Table 4, which illustrates simulated random sequencing. These gaps generally were less than 200 bp in size. All of the gaps were closed by sequencing further on the templates bordering the gaps. In these cases, oligo primers for extension of the sequence from both ends of the gap were generated using techniques known in the art. This gave a double standard coverage across the gap areas.

The high redundancy of sequence information that was obtained from the shotgun approach gave a highly accurate sequence. Our sequence accuracy was confirmed by comparing the sequence information obtained against known M. genitalium genes present in the GenBank database. The accuracy of our chromosome structure was confirmed by comparison of restriction digests to the known restriction map of M. genitalium. The EcoRI restriction map of M. genitalium is shown in Figure 1 and expressed in tabular form in Table 5.

Identifying Genes

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M. genitalium ORFs were initially defined by evaluating their coding potential with the program Gene Works using composition matrices specific to Mycoplasma genomic DNA. The ORF sequences (plus 300 bp of flanking sequence) were used in searches against a database of non-redundant bacterial proteins (NRBP). Redundancy was removed from NRBP at two stages. (1) All DNA coding sequences were extracted from GenBank (release 85), and sequences from the same species were searched against each other. Sequences having >97% similarity over regions >100 nucleotides were combined. (2) The sequences were translated and used to protein comparisons with all sequences in Swiss-Prot (release 30). Sequences belonging to the same species and having >98% similarity over 33 amino acids were combined. NRBP is composed of 21445 sequences from 23751 GenBank sequences and 11183 Swiss-Prot sequences from 1099 different species.

Searches were performed using an algorithm that (1) translates the query DNA sequence in all six reading frames for searching against a protein database, (2) identifies the protein sequences that match the query, and (3) aligns the protein-protein matches using a modified Smith-Waterman algorithm. In cases where insertion or deletions in the DNA sequence produced a frame shift error, the alignment algorithm started with protein regions of maximum similarity and extended the alignment to the same database match using the 300 bp flanking region. Regions known to contain frame shift errors were saved to the database and evaluated for possible correction. The role categories were adopted from those previously defined by Riley *et al.* for *E. coli* gene products. Role assignments were made to *M. genitalium* ORFS at the protein sequence level by linking the protein sequence of the ORFS with the Swiss-Prot sequences in the Riley database.

Detailed Description of Sequencing the Mycoplasma genitalium Genome, Genome Analysis and Comparative Genomics

We have determined the complete nucleotide sequence (580,071 bp) of the *Mycoplasma genitalium* genome using the approach of whole chromosome shotgun sequencing and assembly, which has successfully been applied to the analysis of the *Haemophilus influenzae* genome (R. Fleischmann *et al., Science 269*:496 (1995)). These data, together with the description of the complete genome sequence (1.83 Mb) of the eubacterium *Haemophilus influenzae*, have provided the opportunity for comparative genomics on a whole genome level for the first time. Our initial whole genome comparisons reveal fundamental differences in genome content which are reflected in different physiological ad metabolic capacities of *M. genitalium* and *H. influenzae*.

The strategy and methodology for whole genome shotgun sequencing id assembly was similar to that previously described for H. influenzae (R. Fleischmann et al., Science 269:496 (1995). In particular, a total of 50 µg of purified M. genitalium strain G-37 DNA (ATCC No. 33530) was isolated from cells grown in Hayflick's medium. A mixture (990 ul) containing 50 µg of DNA, 300 mM sodium acetate, 10 mM tris HCl, 1 mM EDTA, and 30 percent glycerol was chilled to O°C in a nebulizer chamber and sheared at 4 lbs/in² for 60 seconds. The DNA was precipitated in ethanol and redissolved in 50 µl of tris-EDTA (TE) buffer to create blunt ends; a 40 µl portion was digested for 10 minutes at 30°C in 85 μl of BAL31 buffer with 2 units of BAL 31 nuclease (New England BioLabs). The DNA was extracted with phenol, precipitated in ethanol, dissolved in 60 µl of TE buffer, and fractionated on a 1.0 percent low melting agarose gel. A fraction (2.0 kb) was excised, extracted with phenol, and redissolved in 20 µl of TE buffer. A two-step ligation procedure was used to produce a plasmid library in which 99% oft he recombinants contained inserts, of which >99% were single inserts. The first ligation mixture (50 μl) contained approximately 2 μg DNA fragments, 2 μg of Smal + bacterial alkaline phosphatase pUC 18 DNA (Pharmacia), and 10 units of T4 DNA hoase (GIBCO/BRL), and incubation was for 5 hours at 4°C. After extraction with phenol and ethanol precipitation, the DNA was dissolved in 20 μl of TE buffer and separated by electrophoresis on a 1.0 percent low melting agarose gel. A ladder of ethicium bromide-stained, linearized DNA bands, identified by size as insert (i), vector (v), v + i, v + 2i, v + 3i, etc. was visualized by 360 nm ultraviolet light. The v + i DNA was excised and recovered in 20μl of TE buffer. The v + i DNA was blunt-ended by T4 polymerase treatment for 5 minutes at 37° C in a reaction mixture (50 μ I) containing the linerized v + i fragments, four deoxynucleotide triphosphates (dNTPs) (25 µM each), and 3 units of T4 polymerase (New England Biolabs) under buffer conditions recommended by the supplier. After phenol extraction and ethanol precipitation, the repaired v + i linear pieces were dissolved in 20 μ l of TE. The final ligation to produce circles was carried out in a 50 μ l reaction containing 5 μ l of v + i DNA and 5 units of T4 hgase at 15°C overnight. The reaction mixture was heated at 67°C for 10 minutes and stored at -20°C.

For transformation, a 100 μ l portion of Epicurian SURE 2 Supercompetent Cells (Stratagene 200152) was thawed on ice and transferred to a chilled Falcon 2059 tube on ice. A 1.7 μ l volume of 1.42M β -mercaptoethanol was added to the cells to a final concentration of 25 mM. Cells were incubated on ice for 10 minutes. A 1 μ l sample of the final ligation mix was added to the cells and incubated on ice for 30 minutes. The cells were heat-treated for 30 seconds at 42°C and placed back on ice for 2 minutes. The outgrowth period in liquid culture was omitted to minimize the preferential growth of any transformed cell. Instead, the transformed cells were plated directly on a nutrient rich SOB plate containing a 5 ml bottom layer of SOB agar (1.5 percent SOB agar consisted of 20 g of tryptone, 5g of yeast extract, 0.5 g of NaCl,

and 1.5 percent Difco agar/liter). The 5 ml bottom layer was supplemented with 0.4 ml of ampicillin (50 mg/ml) per 100 ml of SOB agar. The 15 ml top layer of SOB agar was supplemented with 1 ml of $MgCl_2$ (1M) and 1 ml of $MgSO_4$ (1M) per 100 ml of SOB agar. The 15 ml top layer was poured just before plating. The titer of the library was approximately 100 colonies per 10 μ l aliquot of transformation.

One of the lessons learned from sequencing and assembly of the complete H. influenzae genome was that contigordering and gap closure is most efficient if the random sequencing phase of the project is continued until at least 99.8%-99.9% of the genome is sequenced with at least 6-fold coverage. To calculate the number of random sequencing reactions necessary to obtain this coverage for the M. genitalium genome, we made use of the Lander and Waterman [E.S. Lander and M.S. Waterman, Genomics 2:231 (1988)] application of the Poisson distribution, where $p_x = e^{-rw/L}$. p_x is the probability that any given base is not sequenced, n is the number of clone insert ends sequenced, n is the average read length of each template in p_x and p_x is the genome in p_x . For a genome of 580 kb with an average sequencing read length of 450 bp after editing, approximately 8650 sequencing reactions (or 4325 clones sequenced from both ends) should theoretically provide 99.85% coverage of the genome. This level of coverage should leave approximately 10 gaps with an average size of 70 bp unsequenced.

To evaluate the quality of the *M. genitalium* library, sequence data were obtained from both ends of approximately 600 templates using both the M13 forward (M13-21) and the M13 reverse (M13RP1) primers. Sequence fragments were assembled using the TIGR ASSEMBLER and found to approximate a Poisson distribution of fragments with an average read length of 450 bp for a 580 kb library, indicating that the library was essentially random.

For this project, a total of 5760 double-stranded DNA plasmid templates were prepared in a 96-well format using a boiling bead method. Ninety-four percent of the templates prepared yielded a DNA concentration \geq 30 ng/ μ l and were used for sequencing reactions. To facilitate ordering of contigs each template was sequenced from both ends. Reactions were carried out on using the AB Catalyst LabStation with Applied Biosystems PRISM Ready reaction Dye Primer Cycle Sequencing Kits for the M13 forward (M13-21) and the M13 reverse (M13RP1) primers. The success rate and average read length after editing with the M13-21 primer were 88 percent and 444 bp, respectively, and 84 percent and 435 bp, respectively, with the M13RP1 primer. All data from template preparation to final analysis of the project were stored in a relational data management system developed at TIGR [A.R. Kerlavage et al., Proceedings of the Twenty-Sixth Annual Hawaii International Conference on System Science (IEEE Computer Society Press, Washington, D.C., 1993), p. 585] To facilitate ordering of contigs each template was sequenced from both ends. A total of 9846 sequencing reactions were performed by five individuals using an average of 8 AB 373 DNA Sequencers per day for a total of 8 weeks. Assembly of 8472 high quality M. genitalium sequence fragments along with 299 random genomic sequences from Peterson et al., (S.N. Peterson et al., J. Bacteriol. 175:7918 (1993)) was performed with the TIGR ASSEMBLER. The assembly process generated 39 contigs (size range: 606 to 73,351 bp) which contained a total of 3,806,280 bp of primary DNA sequence data. Contigs were ordered by ASM_ALIGN, program which links contigs based on information derived from forward and reverse sequencing reactions from the same clone.

ASM_ALIGN analysis revealed that all 39 gaps were spanned by an existing template from the small insert genomic DNA library (i.e., there were no physical gaps in the sequence assembly). The order of the contigs was confirmed by comparing the order of the random genomic sequences from Peterson *et al.* (S.N. Peterson *et al.*, *J. Bacteriol.* 175:7918 (1993)) that were incorporate into the assembly with their known position on the physical map of the *M. genitalium* chromosome (T.S. Lucier *et al.*, *Gene* 150:27 (1994); Peterson *et al.*, *J. Bacteriol.* 177:3199 (1995)). Because of the high stringency of the TIGR ASSEMBLER, the 39 contigs were searched against each other with GRASTA (a modified FASTA (B. Brutlag *et al.*, *Comp. Chem.* 1:203 (1993)). The BLOSUM 60 amino acid substitution matrix was used in all protein-protein comparisons [S. Henikoff and J.G. Henikoff, *Proc. Natl. Acad. Sci. USA* 89:1091 (1992)] to detect overlaps (< 30 bp) that would have been missed during the initial assembly process. Eleven overlaps were detected with this approach which reduced the total number of gaps from 39 to 28.

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Templates spanning each of the sequence gaps were identified and oligonucleotide primers were designed from the sequences at the end of each contig. All gaps were less than 300 bp; thus a primer walk from both ends of each template was sufficient for closure. All electropherograms were visually inspected with TIGR EDITOR (R. Fleischmann et al., Science 269:496 (1995)) for initial sequence editing. Where a discrepancy could not be resolved o a clear assignment made, the automatic base calls were left unchanged.

Several criteria for determination of sequence completion were established for the *H. influenzae* genome sequencing project ad these same criteria were applied to this study. Across the assembled *M. genitalium* genome there is an average sequence redundancy of 6.5-fold. The completed sequence contains less than 1% single sequence coverage. For each of the 53 ambiguities remaining after editing and the 25 potential frameshifts found after sequence-similarity searching, the appropriate template was resequenced with an alternative sequencing chemistry (dye terminator vs. dye primer) to resolve ambiguities. Although it is extremely difficult to assess sequence accuracy, we estimate our error rate to be less than 1 base in 10,000 based upon frequency of shifts in open reading frames, unresolved ambiguities, overall quality of raw data, and fold coverage.

A direct cost estimate for sequencing, assembly, and annotation of the *M. genitalium* genome was determined by summing reagent and labor costs for library construction, template preparation and sequencing, gap closure, sequence

confirmation, annotation, and preparation for publication, and dividing by the size of the genome in base pairs. This yielded a final cost of 30 cents per finished base pair.

Genomic Analysis

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The *M. genitalium* genome is a circular chromosome of 580,071 bp. The overall G+C content is 32% (A, 34%; C, 16%; G, 16%; and T, 34%). The G+C content across the genome varies between 27 and 37% (using a window of 5000 bp), with the regions of lowest G+C content flanking the presumed origin of replication of the organism. As in *H. influenzae* (Fleischmann, R. *et al.*, *Science 269*:496 (1995)), the rRNA operon in *M. genitalium* contains a higher G+C content (44%) than the rest of the genome, as do the tRNA genes (52%). The higher G+C content in these regions may reflect the necessity of retaining essential G+C base pairing for secondary structure in rRNAs and tRNAs (Rogers, M.J. *et al.*, *Isr. J. Med. Sci. 20*:768 (1984)).

The genome of *M. genitalium* contains 74 *EcoRI* fragments, as predicted by cosmid mapping data (Lucier, T.S. *et al.*, *Gene 150:*27 (1994); Peterson *et al.*, *J. Bacteriol. 177:*3199 (1995)). The order and sizes of the *EcoRI* fragments determined from sequence analysis are in agreement with those previously reported (Lucier, T.S. *et al.*, *Gene 150:*27 (1994); Peterson *et al.*, *J. Bacteriol. 177:*3199 (1995)), with one apparent discrepancy between coordinates 62,708 and 94,573 in the sequence. However, re-evaluation of cosmid hybridization data in light of results from genome sequence analysis confirms that the sequence data are correct, and the extra 4.0 kb *EcoRI* fragment in this region of the cosmid map reflects a misinterpretation of the overlap between cosmids J-8 and 21 (Lucier, T.S., unpublished observation). The ends of each clone from the ordered cosmid library were sequenced and are shown on the circular chromosome in Figure 4. The order of the cosmids based on sequence analysis is in complete agreement with that determined by physical mapping (Lucier, T.S. *et al.*, *Gene 150:*27 (1994); Peterson *et al.*, *J. Bacteriol. 177:*3199 (1995)).

We defined the first bp of the chromosomal sequence of M. genitalium based on the putative origin of replication (Bailey & Bott, J. Bacteriol. 176:5814 (1994)). Studies of origins of replication in some prokaryotes have shown that DNA synthesis is initiated in an untranscribed AT rich region between dnaA and dnaN (Ogasawara, N. et al., in The Bacterial Chromosome, Krlica & Riley, eds., American Society for Microbiology, Washington, DC (1990), pp. 287-295; Ogasawara & Yoshikawa, Mol. Microbiol. 6:629 (1992)). A search of the M. genitalium sequence for "DnaA boxes" around the putative origin of reolication with consensus "DnaA boxes" from Escherichia coli, Bacillus subtilis, and Pseudomonas aeruginosa revealed no significant matches. Although we have not been able to precisely localize the origin, the co-localization of dnaA and dnaN to a 4000 bp region of the chromosome lends support to the hypothesis that it is the functional origin of replication in M. genitalium (Ogasawara, N. et al., in The Bacterial Chromosome, Krlica & Riley, eds., American Society for Microbiology, Washington, DC (1990), pp. 287-295; Ogasawara & Yoshikawa, Mol. Microbiol. 6:629 (1992), Miyata, M. et al., Nucleic Acids Res. 21:4816 (1993)). We have chosen an untranscribed region between dnaA and dnaN so that dnaN is numbered as the first open reading frame in the genome. As seen in Figure 4, genes to the right of this region are preferentially transcribed from the plus strand and to the left of this region, are preferentially transcribed from the minus strand. The apparent polarity in gene transcription is maintained across each half of the genome (Figures 4 and 5). This stands in marked contrast to H. influenzae which displays no apparent polarity of transcription around the origin of replication. The significance of this observation remains to be determined.

The predicted coding regions of M. genitalium were initially defined by searching the entire genome for open reading frames greater than 100 amino acids. Translations were made using the genetic code for mycoplasma species in which UGA encodes tryptophan. All open reading frames were searched with BLAZE (Brutlag, D. et al., Comp. Chem. 1:203 (1993). The BLOSUM 60 amino acid substitution matrix was used in all protein-protein comparisons (Henikoff, S. and Henikoff, J.G., Proc. Natl. Acad. Sci. USA 89:1091 (1992)) against a non-redundant bacterial protein database (NRBP) (Fleischmann, R. et al., Science 269:496 (1995)) developed at TIGR on a MasPar MP-2 massively parallel computer with 4096 microprocessors. Protein matches were aligned with PRAZE, a modified Smith-Waterman (Waterman, M.S., Methods Enzymol. 164:765 (1988)) algorithm. Segments between predicted coding regions of the genome were used in additional searches against all protein sequences from GenPept, Swiss-Prot, and PIR. Pairwise alignments between M. genitalium predicted open reading frames and sequences from the public archives were examined. Motif matches were annotated in cases where sequence similarity was confined to short domains in the predicted coding region. The coding potential of 170 unidentified open reading frames was analyzed with GeneMark (Borodovsky & McIninch, ibid, p. 123) which had been trained with 308 M. genitalium sequences. Open reading frames that had low coding potential (based on the GeneMark analysis) and were smaller than. 100 nucleotides (a total of 53) were removed from the final set of putative coding regions. In a separate analysis, open reading frames were searched against the complete set of translated sequences from H. influenzae (GSDB accession L42023, see (Fleischmann, R. et al., Science 269:496 (1995))). In total, these processes resulted in the identification of 482 predicted coding regions, of which 365 were putatively identified (Twenty-three of the protein matches in Table 6 were annotated as motifs. These data matches were not full-length protein matches, but nonetheless displayed regions of significant amino acid similarity) and 117 had no matches to protein sequences from any other organism.

The 365 predicted coding regions that matched protein sequences from the public sequence archives were

assigned biological roles. The role classifications were developed from Riley (Riley, M., *Microbiol. Rev.* 57:862 (1992)) and identical to those used in *H. influenzae* assignments (Fleischmann, R. et al., *Science* 269:496 (1995)). A separate search procedure was used in cases where we were unable to detect genes in the *M. genitalium* genome. Query peptide sequences that were available from eubacteria such as *E. coli*, *B. subtilis*, *M. capricolum*, and *H. influenzae* were used in searches against all six reading frame translations of the entire genome sequence, and the alignments were examined. The possibility remains that current searching methods, an incomplete set of query sequences, or the subjective analysis of the database matches, are not sensitive enough to identify certain *M. genitalium* gene sequences.

One-half of all predicted coding regions in *M. genitalium* for which a putative identification could be assigned display the greatest degree of similarity to a protein from either a gram-positive organism (e.g., *B. subtilis*) or a *Mycoplasma* species. The significance of this finding is underscored by the fact that NRBP contained 3885 sequences from *E. coli* and only 1975 sequences from *B. subtilis*. In the majority of cases where *M. genitalium* coding regions matched sequences from both *E. coli* and *Bacillus* species, the better match was to a sequence from *Bacillus* (average of 62 percent similarity) rather than to a sequence from *E. coli* (average of 56 percent similarity). The evolutionary relationship between *Mycoplasma* and the *Lactobacillus-Clostridium* branch of the gram-positive phylum has been deduced from small subunit rRNA sequences (Maidak, B.L. *et al.*, *Nucleic Acids Research 22*:3485 (1994)). Our data from whole genome analysis support this hypothesis.

Comparative Genomics: M. genitalium and H. influenzae

A survey of the genes and their organization in *M. genitalium* makes possible the description of a minimal set of genes required for survival. One would predict that a minimal cell must contain genes for replication and transcription, at least one rRNA operon and a set of ribosomal proteins, tRNAs and tRNA synthetases, transport proteins to derive nutrients from the environment, biochemical pathways to generate ATP and reducing power, and mechanisms for maintaining cellular homeostasis. Comparison of the genes identified in *M. genitalium* with those in *H. influenzae* allows for identification of a basic complement of genes conserved in these two species and provides insights into physiological differences between one of the simplest self-replicating prokaryotes and a more complex, gram-negative bacterium.

The *M. genitalium* genome contains 482 predicted coding sequences (Table 6) as compared to 1, 727 identified in *H. influenzae* (Fleischmann, R. *et al.*, *Science 269*:496 (1995)). Table 7 summarizes the gene content of both organisms sorted by functional category. The percent of the total genome in *M. genitalium* and *H. influenzae* encoding genes involved in cell envelope, cellular processes, energy metabolism, purine and pyrimdine metabolism, replication, transcription, transport, and other categories is similar; although the total number of genes in these categories is considerably fewer in *M. genitalium*. A smaller percentage of the *M. genitalium* genome encodes genes involved in amino acid biosynthesis, biosynthesis of co-factors, central intermediary metabolism, fatty acid and phospholipid metabolism, and regulatory functions as compared with *H. influenzae*. A greater percentage of the *M. genitalium* genome encodes proteins involved in translation than in *H. influenzae*, as shown by the similar numbers of ribosomal proteins and tRNA synthetases 'in both organisms.

The 482 predicted coding regions in *M. genitalium* (average size of 1100 bp) cover 85% of the genome (on average, one gene every 1169 bp), a value similar to that found in *H. influenzae* where 1727 predicted coding regions (average size of 900 bp) cover 91% of the genome (one gene every 1042 bp). These data indicate that the reduction in genome size that has occurred within *Mycoplasma* has not led to an increase in gene density or a decrease in gene size (Bork, P. *et al.*, *Mol. Microbiol.* 16:955 (1995)). A global search of *M. genitalium* and *H. influenzae* genomes reveals short regions of conservation of gene order, particularly two clusters of ribosomal proteins.

Replication. Two major protein complexes are formed during replication: the primosome and the replisome. We have identified genes encoding many of the essential proteins in the replication process, including *M. genitalium* isologs of the primosome proteins DnaA, DnaB, GyrA, GyrB, a single stranded DNA binding protein, and the primase protein, DnaE. DnaJ and DnaK, heat shock proteins that may function in the release of the primosome complex, are also found in *M. genitalium*. A gene encoding the DnaC protein, responsible for delivery of DnaB to the primosome, has yet to be identified.

Genes encoding most of the essential subunit proteins for DNA polymerase III in M. genitalium were also identified. The polC gene encodes the α subunit which contains the polymerase activity. We have also identified the isolog of dnaH in B. subtilis (dnaX in E. coli) which encodes the γ and t subunits as alternative products from the same gene. These proteins are necessary for the processivity of DNA polymerase III. An isolog of dnaN which encodes the β subunit was previously identified in M. genitalium (Bailey & Bott, J. Bacteriol. 176:5814 (1994)) and is involved in the process of clamping the polymerase to the DNA template. While we have yet to identify a gene encoding the ϵ subunit responsible for the 3'-5' proofreading activity, it is possible that this activity is encoded in the α subunit as has been previously described (Sanjanwala, B. and Ganesa, A.T., Mol. Gen. Genet. 226:467 (1991); Sanjanwala, B. and Ganesan, A.T., Proc. Natl. Acad. Sci. USA 86:4421 (1989)). Finally, we have identified a gene encoding a DNA ligase, necessary for the joining of the Okazaki fragments formed during synthesis of the lagging strand.

While we have identified genes encoding many of the isologs thought to be essential for DNA replication, some

genes encoding proteins with key functions have yet to be identified. Examples of these are the DnaC protein mentioned above as well as Dnaθ and Dnaδ whose functions are less well understood but are thought to be involved in the assembly and processivity of polymerase III. Also apparently absent is a specific RNaseH protein responsible for the hydrolysis of the RNA primer synthesized during lagging strand synthesis.

DNA Repair. It has been suggested that in *E. coli* as may as 100 genes are involved in DNA repair (Kornberg, A. and Baker, T.A., *DNA Replication-2nd Ed.*, W.H. Freeman and Co., New York (1992)), and in *H. influenzae* the number of putatively identified DNA repair enzymes is approximately 30 (Fleischmann, R. *et al.*, *Science 269*:496 (1995)). Although *M. genitalium* appears to have the necessary genes to repair many of the more common lesions in DNA, the number of genes devoted to the task is much smaller. Excision repair of regions containing missing bases (apurinic/apyriminic (AP) sites) can likely occur by a pathway involving endonuclease IV (info), Pol I, and ligase. The *ung* gene which encodes uracil-DNA glycosylase is present. This activity removes uracil residues from DNA which usually arise by spontaneous deamination of cytosine. This produces an AP site which could then be repaired as described above.

All three genes necessary for production of the uvr ABC exinuclease are present, and along with Pol I, helicase II, and ligase should provide a mechanism for repair of damage such as cross-linking, which requires replacement of both strands. Although *recA* is present, which in *E. coli* is activated as it binds to single strand DNA, thereby initiating the SOS response, we find no evidence for a *lexA* gene which encodes the repressor which regulates the SOS genes. We have not identified photolyase (*phr*) in *M. genitalium* which repairs UV-induced pyrimidine dimers, or other genes involved in reversal of DNA damage rather than excision and replacement of the lesion.

Transcription. The critical components for transcription were identified in *M. genitalium*. In addition to the a, b, and b-prime subunits of the core RNA polymerase, *M. genitalium* appears to encode a single a factor, whereas *E. coli* and *B. subtilis* encode at least six and seven, respectively. We have not detected a homolog of the Rho termination factor gene, so it seems likely that a mechanism similar to Rho-independent termination in *E. coli* operates in *M. genitalium*. We have clear evidence for homologs of only two other genes which modulate transcription, *nusA* and *nusG*.

Translation. *M. genitalium* possesses a single rRNA operon which contains three rRNA subunits in the order: 16S rRNA(1518 bp)-spacer (203 bp)-23S rRNA (2905 bp)-spacer (56 bp)-5S rRNA (103 bp). The small subunit rRNA sequence was compared with the Ribosomal Database Project's (Maidak, B.L. *et al.*, *Nucleic Acids Research 22*:3485 (1994)) prokaryote database with the program "similarity_yank." Our sequence is identical to the *M. genitalium* (strain G37) sequence deposited there, and the 10 most similar taxa returned by this search are also in the genus *Mycoplasma*.

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A total of 33 tRNA genes were identified in *M. genitalium*, these were organized into five clusters plus nine single genes. In all cases, the best match for each tRNA gene in *M. genitalium* was the corresponding gene in *M. pneumoniae* (Simoneau, P. et al., Nuc. Acid Res. 21:4967 (1993)). Furthermore, the grouping of tRNAs into clusters (trnA, trnB, trnC, trnD, and trnE) was identical in *M. genitalium* and *M. pneumoniae* as was gene order within the cluster (Simoneau, P. et al., Nuc. Acids Res. 21:4967 (1993)). The only difference between *M. genitalium* and *M. pneumoniae* observed with regard to tRNA gene organization was an inversion between trnD and GTG. In contrast to *H. influenzae* and many other eubacteria, no tRNAs were found in the spacer region between the 16S and 23S rRNA genes in the rRNA operon of *M. genitalium*, similar to what has been reported for *M. capricolum* (Sawada, M. et al., Mol. Gen. Genet. 182:502 (1981)).

A search of the *M. genitalium* genome for tRNA synthetase genes identified all of the expected genes with the exception of glutaminyl tRNA synthetase. We expect that this gene is present in the *M. genitalium* genome, but we have not been able to identify it by similarity searches. The latest GenBank release (release 89) contains only a single entry for a glutaminyl tRNA synthetase from a bacterial species; this was from *E. coli*, a gram-negative organism only distantly related to *Mycoplasma*. In general, tRNA synthetase sequences from gram-positive organisms such as *B. subtilis* displayed greater similarity to those from *M. genitalium* than the corresponding sequences from *E. coli*, lending support to the notion that the similarity between the *E. coli* and *M. genitalium* glutaminyl tRNA synthetase may not have been high enough to be detected.

Metabolic pathways. The reduction in genome size among Mycoplasma species is associated with a marked reduction in the number and components of biosynthetic pathways in these organisms, requiring them to use metabolic products from their hosts. In the laboratory, M. genitalium has not been grown in a chemically defined medium. The complex growth requirements of this organism can be explained by the almost complete lack of enzymes involved in amino acid biosynthesis, de novo nucleotide biosynthesis, and fatty acid biosynthesis (Table 6 and Figure 5). When the number of genes in the categories of central intermediary metabolism, energy metabolism, and fatty acid and phospholipid metabolism are summed, marked differences in gene content between H. influenzae and M. genitalium are apparent. For example, whereas the H. influenzae genome contains 68 genes involved in amino acid biosynthesis, the M. genitalium genome contains only one. In total, the H. influenzae genome has 167 genes associated with metabolic pathways whereas the M. genitalium genome has just 42. A recent analysis of 214 kb of sequence from Mycoplasma capricolum (Bork, P. et al., Mol. Microbiol. 16:955 (1995)), a related organism whose genome size is twice as large as that of M. genitalium, reveals that M. capricolum contains a number of biosynthetic enzymes not present in M. genitalium. This observation suggests that M. capricolum's larger genome confers a greater anabolic capacity.

M. genitalium is a facultative anaerobe that ferments glucose and possibly other sugars via glycolysis to lactate and acetate. Genes that encode all the enzymes of the glycolytic pathway were identified, including genes for components of the pyruvate dehydrogenase complex, phosphotransacetylase, ad acetate kinase. The major route for ATP synthesis may be through substrate level phosphorylation since no cytochromes are present. M. genitalium also lacks all the components of the tricarboxylic acid cycle. None of the genes coding for glycogen or poly-beta-hydroxybutryate production were identified, indicating limited capacity for carbon and energy storage. The pentose phosphate pathway also appears limited since only genes encoding 6-phosphogluconate dehydrogenase and transketolase were identified. The limited metabolic capacity of M. genitalium sharply contrasts with the complexity of catabolic pathways in H. influenzae, reflecting the four-fold greater number of genes involved in energy metabolism found in H. influenzae.

Transport. The transporters identified in *H. influenzae* are specific for a range of nutritional substrates. Using protein transport as an example, both oligopeptide and amino acid transporters are represented. One interesting peptide transporter has homology to a lactococcin transporter (lcnDR3) and related bacteriocin transporters, suggesting the *M. genitalium* may export a small peptide with antibacterial activity. The *H. influenzae* isolog of the *M. hyorhinis* p37 high-affinity transport system also has a conserved lipid modification site, providing further evidence that the *Mycoplasma* binding-protein dependent transport systems are organized in a manner analogous to gram positive bacteria (Gilson, E. et al., EMBO J. 7:3971 (1988)).

Genes encoding proteins that function in the transport of glucose via the phosphoenolpyruvate:sugar transferase system (PTS) have been identified in *M. genitalium*. These include enzyme I (EI), HPr and sugar specific enzyme IIs (EII) (Postma, P.W. et al., Microbiol. Rev. 57:543 (1993)). Ells consist of a complex of at least there domains, EllA, EllB and EllC. In some bacteria (eg, *E. coli*), EllA is a soluble protein, while in others (*Bacillus subtilis*), a single membrane protein contains all three domains, EllA, B and C. These variations in the proteins that make up the Ell complex are due to fusion or splitting of domains during evolution and are not considered to be mechanistic differences (Postma, P.W. et al., Microbiol. Rev. 57:543 (1993)). In *M. genitalium* EllA, B, and C are located in a single protein similar to the protein found in *B. subtilis*. In Mycoplasma capricolum ptsH, the gene which encodes for HPr, is located on a monocistronic transcriptional unit while genes encoding El (ptsl) and EllA (crr) are located on a dicistronic operon (Zhu, P.P. et al., Protein Sci. 3:2115 (1994); Zhu, P.P. et al., J. Biol. Chem. 268:26531 (1993)). In most bacterial species studied to date, ptsl, ptsH, and crr are part of a polycistronic operon (pts operon). In M. genitalium ptsH, ptsl and the gene encoding EllABC reside at different locations of the genome and thus each of these genes may constitute monocistronic transcriptional units. We have also identified EllBC component for uptake of fructose; however, other components of the fructose PTS were not found. Thus, M. genitalium may be limited to the use of glucose as a energy source. In contrast, H. influenzae has the ability to use at least six different sugars as a source of carbon and energy.

Regulatory Systems. It appears that regulatory systems found in other bacteria are absent in M. genitalium. For instance, although two component systems have been described for a number of gram-positive organisms, no sensor or response regulator genes are found in the M. genitalium genome. Furthermore, the lack of a heat shock σ factor raises the question of how the heat shock response is regulated. Another stress faced by all metabolically active organisms is the generation of reactive oxygen intermediates such as superoxide anions and hydrogen peroxide. Although H. influenzae has a oxyR homologue, as well as catalase and superoxide dismutase, M. genitalium appears to lack these genes as well as an NADH peroxidase. The importance of these reactive intermediate molecules in host cell damage suggests that some as yet unidentified protective mechanism may exist within the cell.

Antigenic variation. Numerous examples exist of microbial pathogens expressing outer membrane proteins that vary due to DNA rearrangements as a mechanism for providing antigenic and functional variations that influence virulence potential (Bergstrom, S. et al., Proc. Natl. Acad. Sci. USA 83:3890 (1986); Meier, J.T. et al., Cell 47:61 (1986); Majiwa, P.A.O. et al., Nature 297:514 (1982)). Because humans are the natural host for both M. genitalium and H. influenzae, it was of interest to compare mechanisms for generating antigenic variation in these organisms. In H. influenzae, a number of virulence-related genes encoding membrane proteins contain tandem tetramer repeats that undergo frequent addition and deletion of one or more repeat units during replication, such that the reading frame of the gene is changed and its expression altered (Weiser, J.N. et al., Cell 59:657 (1989)).

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M. genitalium appears to use a different system for evading host immune responses. The 140 kDa adhesion protein of M. genitalium is densely clustered at a differentiated tip of this organism and elicits a strong immune response in humans and experimentally infected animals (Collier, A.M. et al., Zbl. Bkt. Suppl. 20:73 (1992)). The adhesion protein (MgPa) operon in M. genitalium contains a 29 kDa ORF, the MgPa protein (160 kDa) and a 114 kDa ORF with intervening regions of 6 and 1 nt, respectively (Inamine, J.M. et al., Gene 82:259 (1989)). Based on hybridization experiments (Dallo, S.F. and Baseman, J.B., Microb. Pathog. 8:371 (1990)), multiple copies of regions of the M. genitalium MgPa gene and the 114 kDa ORF are known to exist throughout the genome.

The availability of the complete genomic sequence from *M. genitalium* has allowed a comprehensive mapping of the MgPa repeats (Figures 4 and 6). In addition to the complete operon, nine repetitive elements which are composites of particular regions of the MgPa operon were found. The percent of sequence identity between the repeat elements and the MgPa gene ranges from 78%-90%. In some of the repeats, the MgPa-related sequences are separated in the genome by a variable length, A-T rich spacer sequence, as has previously been described (Peterson, S.N., PhD dis-

sertation, Univ. No. Carolina 1992, Univ. Mi. Dissertation Services #6246). The sequences contained in the MgPa operon ad the nine repeats scattered throughout the chromosome represent 4.5% of the total genomic sequence. At first glance this might appear to contradict the expectation for a minimal genome. However, recent evidence for recombination between the repetitive elements and the MgPa operon has been reported (Peterson, S.N. *et al.*, *Proc. Natl. Acad Sci. USA*, in press (1995)). Such recombination may allow *M. genitalium* to evade the host immune response through mechanisms that induce antigenic variation within the population. Since *M. genitalium* survives in nature by obtaining essential nutrients from its mammalian host, a efficient mechanism to evade the immune response may be a necessary part of this minimal genome.

The *M. genitalium* genome contains 93 putatively identified genes that are apparently not present in *H. influenzae*. Almost 60% of these genes have database matches to known or hypothetical proteins from gram-positive bacteria or other *Mycoplasma* species, suggesting that these genes may encode proteins with a restricted phylogenetic distribution. One hundred seventeen potential coding regions in *M. genitalium* have no database match to any sequences in public archives including the entire *H. influenzae* genome; therefore, these likely represent novel. genes in *M. genitalium*, and related organisms.

The predicted coding sequences of the hypothetical ORFs, the ORFs with motif matches and the ORFs that have no similarities to known peptide sequences were analyzed. The two programs used were the Kyte-Doolittle algorithm (Kyte, J. and Doolittle, R.F., J. Mol. Biol. 157:105 (1982)) with a range of 11 residues, and PSORT which is available on the WWW site http://psort.nibb.ac.jp. PSORT predicts the presence of signal sequences by the methods of McGeoch (McGeoch, D.J., Virus Res. 3:271 (1985)) and von Heijne (von Heijne, G., Nucl. Acids Res. 14:4683 (1986)), and detects potential transmembrane domains by the method of Klein et al. (Klein, P. et al., Biochim. Biophys. Acta 815:468 (1985)). Of a total of 201 ORFs examined, 90 potential membrane proteins were found. Eleven of them are predicted to have type I signal peptides, ad five type II signal peptides. Using this approach, at least fifty potential membrane proteins were identified from the list of ORFs with known functions. This brings the total number of membrane proteins in M. genitalium to approximately 140.

To manage these putative membrane proteins, *M. genitalium* has at its disposal a minimal secretary machinery composed of seven functions: three chaperoning GroEL, DnaK ad the trigger factor Tig (Pugsley, A.P., *Microbiol. Rev. 57*:50 (1993); Guthrie, B. and Wickner, W., *J. Bacteriol. 172*:5555 (1990), an ATPase pilot protein SecA, one integral membrane protein translocase (SecY), a signal recognition particle protein (Ffh) and a lipoprotein-specific signal peptidase LspA (Pugsley, A.P., *Microbiol. Rev. 57*:50 (1993)). Perhaps the lack of other known translocases like SecE, SecD, and SecF which are present in *E. coli* and *H. influenzae*, is related to the fact that *M. genitalium* has a one-layer cell envelope. Also, the absence of a SecB homologue, the secretory chaperonin of *E. coli*, in *M. genitalium* (it is also absent in *B. subtilis* (Collier, D.N. *J. Bacteriol. 176*:4937 (1994))) might reflect a difference between gram negative ad wall-less Mollicutes in handling nascent proteins destined for the general secretory pathway. Considering the presence of several putative membrane proteins that contain type I signal peptides, the absence of a signal peptidase I (*lepB*) is most surprising. A direct electronic search for the *M. genitalium lepB* gene using the *E. coli lepB* and the *B. subtilis sipS* (van Dijil, J.M. *et al.*, *EMBO J. 11*:2819 (1992)) as queries did not reveal any significant similarities.

There are a number of possible explanations as to why genes encoding some of the proteins thought to be essential for a self-replicating organism appear to be absent in *M. genitalium*. One possibility is that a limited number of proteins may have adapted to take on other functions. A second possibility is that certain proteins thought to be essential for life based on studies in *E. coli* are not required in a simpler prokaryote like *M. genitalium*. Finally, it may be that sequences from *M. genitalium* have such a low similarity to known sequences from other species that matches are not detectable above a reasonable confidence threshold.

Determination of the complete genome sequence of *M. genitalium* provides a new starting point in understanding the biology of this ad related organisms. Comparison of the genes expressed in *M. genitalium*, a simple prokaryote, with those in *H. influenzae*, a more complex organism, has revealed a myriad of differences between these species. Fifty-six percent of the genes in *M. genitalium* have apparent isologs in *H. influenzae*, suggesting that this subset of the *M. genitalium* genome may encode the genes that are truly essential for a self-replicating organism. Notable among the genes that are conserved between *M. genitalium* and *H. influenzae* are those involved in DNA replication ad repair, transcription and translation, cell division, and basic energy metabolism via glycolysis. Isologs of these genes are found in eukaryotes as well.

Example 2

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Production of an Antibody to a Mycoplasma genitalium Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells using any one of the methods known in the art. The protein can also be produced in a recombinant prokaryotic expression system, such as *E. coli*, or can by chemically synthesized. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the

protein can then be prepared as follows:

Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., *Nature 256*:495 (1975) or modifications of the methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted ad aliquots of the dilution placed in wells of a microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as ELISA, as originally described by Engvall, E., *Meth. Enzymol. 70*:419 (1980), and modified methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. *et al.* Basic Methods in Molecular Biology Elsevier, New York. Section 21-2 (1989).

Polyclonal Antibody Production by Immunization

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al., J. Clin. Endocrinol. Metab. 33:988-991 (1971).

Booster injections can be given at regular intervals, ad antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall (*See* Ouchterlony, O. *et al.*, Chap. 19 in: *Handbook of Experimental Immunology*, Wier, D., ed, Blackwell (1973)). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 µM). Affinity of the antisera for the antigen is determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: *Manual of Clinical Immunology*, second edition, Rose and Friedman, (eds.), Amer. Soc. For Microbio., Washington, D.C. (1980).

Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a biological sample.

Example 3

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Preparation of PCR Primers and Amplification of DNA

Various fragments of the *Mycoplasma genitalium* genome, such as those disclosed in Tables 1a, 1b, 1c and 2 can be used, in accordance with the present invention, to prepare PCR primers for a variety of uses. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. When selecting a primer sequence, it is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. The PCR primers and amplified DNA of this Example find use in the examples that follow.

Example 4

Gene expression from DNA Sequences Corresponding to ORFs

A fragment of the *Mycoplasma genitalium* genome provided in Tables 1a, 1b, 1c and 2 is introduced into a expression vector using conventional technology (techniques to transfer cloned sequences into expression vectors that direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art). Commercially available vectors ad expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield *et al.*, U.S. Pat. No. 5,082,767, which is hereby incorporated by ref-

erence.

The following is provided as one exemplary method to generate polypeptide(s) from cloned ORFs of the *Mycoplasma* genome fragment. Since the ORF lacks a poly A sequence because of the bacterial origin of the ORF, this sequence can be added to the construct by, for example, splicing out the poly A sequence from pSG5 (Stratagene) using *BgI*I and *SaI*I restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene) for use in eukaryotic expression systems. pXT1 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector includes the Herpes Simplex thymidine kinase promoter ad the selectable neomycin gene. The *Mycoplasma* DNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the *Mycoplasma* DNA and containing restriction endonuclease sequences for *Pst*I incorporated into the 5' primer and *BgI*II at the 5' end of the corresponding *Mycoplasma* DNA 3' primer, taking care to ensure that the *Mycoplasma* DNA is positioned such that its followed with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with *Pst*I, blunt ended with a exonuclease, digested with *BgI*II, purified and ligated to pXT1, now containing a poly A sequence and digested *BgI*II.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600 ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted *Mycoplasma* DNA sequence are injected into mice to generate antibody to the polypeptide encoded by the *Mycoplasma* DNA.

If antibody production is not possible, the *Mycoplasma* DNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example, β-globin. Antibody to β-globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the β-globin gene and the *Mycoplasma* DNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating β-globin chimerics is pSG5 (Stratagene). This vector encodes rabbit β-globin. Intron II of the rabbit β-globin gene facilitates splicing of the expressed transcript, and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and may of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro ExpressTM Translation Kit (Stratagene).

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Table 1(a)

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QIO	end5	end3	db_match	db_match name	per_id	per_si g m	gene_len
MG006 8552	l l	9181	SP-P00572	thymidylate kinase (CDC8) {Saccharomyces cerevisiae}	27.5862	51.7241	630
MG009 11252		12037	2.1	hypothetical protein (GB:D26185_102) {Bacillus subtilis}	35.4331	55.1181	786
MG010	12069	12722	SP:P33655	DNA primase (dnaE) {Clostridium acetobutylicum}	25.731	53.2164	654
MG012	14247	13573	SP:P17116	ribosomal protein S6 modification protein (rimK) {Escherichia coli}	31.4961	54.3307	675
MG013	MG013 15217	14399	GB:D10588_1	5,10-methylene-tetrahydrofolate dehydrogenase (foID) {Escherichia coli}	33.0472	53.2189	819
MG015	MG015 17474	19240	SP:P27299	transport ATP-binding protein (msbA) {Escherichia coli}	32.2382	57.4949	1767
MG023		27341	GB:M22039_4	fructose-bisphosphate aldolase (tsr) {Bacillus subtilis}	45.9649 65.9649	65.9649	864
MG024	MG024 27345 28445	28445	GP:U02423_1	GP:U02423_1 GTP-binding protein (gtp1) {Escherichia coli}	46.8401	67.658	1101
MG032	MG032 36978	38975	GB:M63489_1	ATP-dependent nuclease (addA) {Bacillus subtilis}	26.8293	54.2683	1998
MG033	39242	39901	GB:M99611_2	GB:M99611_2 glycerol uptake facilitator (glpF) {Bacillus subtilis}	35.8974	55.3846	099
MG034	MG034 40514	39876	GB:M97678_5	97678_5 thymidine kinase (tdk) {Bacillus subtilis}	48.1283	69.5187	639
MG035	MG035 40543 41784	41784	GB:U00011_2	00011_2 histidyl-tRNA synthetase (hisS) {Mycobacterium leprae}	30.7107	30.7107 50.7614	1242

ain	cnd5	end3	db_match	db_match name	per_id	per_si m	genc_len
MG038	MG038 46277 44754	44754	GB:L19201_68	GB:L19201_68 glycerol kinase (glpK) {Escherichia coli}	46.8254	70.2381	1524
MG039	MG039 47422 46271	46271	PIR:S48379	glycerol-3-phospate dehydrogenase (GUT2) {Saccharomyces cerevisiae}	43.2099 60.4938	60.4938	1152
MG041	MG041 49377 49640	49640	GB:L22432_2	phosphohistidinoprotein-hexose phosphotransferase (ptsH) {Mycoplasma capricolum}	48.8636 70.4545	70.4545	264
MG042	MG042 50060 51517	51517	GB:M64519_1	spermidine/putrescine transport ATP-binding protein (potA) {Escherichia coli}	41.9231 65.3846	65.3846	1458
MG043 51525	51525	52379	GB:M64519_2	519_2 spermidine/putrescine transport system permease protein (potB) {Escherichia coli}	26.5116 57.2093	57.2093	855
MG044 52366	52366	53217	GB:M64519_3	spermidine/putrescine transport system permease protein (potC) {Escherichia coli}	29.4574 58.1395	58.1395	852
MG046 54658	54658	55602	GB:M62364_1	sialoglycoprotease (gcp) {Pasteurella haemolytica}	36.6013	59.4771	945
MG048 58310		56973	SP:P37105	signal recognition particle protein (ffh) {Bacillus subtilis}	43.0206 66.1327	66.1327	1338
MG049 58117	58117	92005	GB:U14003_2 95	purine-nucleoside phosphorylase (deoD) {Escherichia coli}	44.7826 63.0435	63.0435	096
MG050 59083	59083	59751	GB:X13544_1	deoxyribose-phosphate aldolase (deoC) {Mycoplasma pneumoniae}	83.0357 91.5179	91.5179	699

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UID	spu3	end3	db_match	db_match name	per_id	per_si g m	gene_len
MG056 65731	N .	64901	GB:D26185_9	26185_9 hypothetical protein (GB:D26185_99) {Bacillus subtilis}	30.2583	54.6125	831
MG057	MG057 66249 65716		iB:D26185_1	hypothetical protein (GB:D26185_104) {Bacillus subtilis}	28.9017 28.9017	28.9017	534
MG067	81047	82594	GB:D00730_1	glutamic acid specific protease (SPase) {Staphylococcus aureus}	28.8462	48.0769	1548
	91065	91916	SP:P34831	ribosomal protein S2 (rpS2) {Spirulina platensis}	34.8	55.2	852
MG077 10310	10310	104324	SP:P24138	oligopeptide transport system permease protein (oppB) {Bacillus subtilis}	28.0528	58.4158	1221
MG078	MG078 10432		105447 SP:P26904	oligopeptide transport system permease protein (dciAC) {Bacillus subtilis}	33.4572	55.0186	1128
MG079	MG079 10545	106657	SP:P18765	oligopeptide transport ATP-binding protein (amiE) {Streptococcus pneumoniae}	47.9412	67.9412	1206
MG081	MG081 10926	109672	SP:P29395	ribosomal protein L11 (RPL11) {Thermotoga maritima}	51.7986	71.9424	411
MG085	MG085 11179	112722	PIR:S24760	hydroxymethylglutaryl-CoA reductase (NADPH) {Nicotiana sylvestris}	23.3216	49.1166	933
MG086	MG086 11271	113863 GB:I	GB:L13259_2	prolipoprotein diacylglyceryl transferase (lgt) {Salmonella typhimurium}	29.1262	53.8835	1146

UID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG091	11755	118032	MG091 11755 118032 GB:U04997_2	single-stranded DNA binding protein (ssb) {Haemophilus influenzae}	21.7949	41.6667	480
MG092 11802 5	11802 5	118339 GB:U1 14		4003_1 ribosomal protein S18 (rpS18) {Escherichia coli}	45.4545	68.1818	315
MG093	11834	118794	GB:M57623_1	MG093 11834 118794 GB:M57623_1 ribosomal protein L9 (rpL9) {Bacillus stearothermophilus}	32.8859	56.3758	450
MG099	12585 2		127282 GB:M61151_1	1151_1 hydrolase (aux2) {Agrobacterium rhizogenes}	32.1212	51.8182	1431
MG106 13482 6	13482 6	134149 SP:P27	SP:P27251	formylmethionine deformylase (def) {Escherichia coli}	36.9369	68.4685	678
MG107	13455 8	MG107 13455 135334 GB:L10	GB:L10328_14	0328_14 5'guanylate kinase (gmk) {Escherichia coli}	42.623	65.0273	777
MG114 14134 5	14134 5	142052	GB:M1	2299_2 phosphatidylglycerophosphate synthase (pgsA) {Escherichia coli}	29.2994	57.3248	708
MG118 14393 5	14393 5	144954	SP:P09147	UDP-glucose 4-epimerase (galE) {Escherichia coli}	34.0557	53.87	1020
MG121	14823 8	MG121 14823 149155 SP:P32	SP:P32720	hypothetical protein (SP:P32720) {Escherichia coli}	30.8824	50.7353	918

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aın	end5	end3	db_match	db_match name	per_id	per_si g	gene_len
MG125 15308		153935	GB:L10328_61	153935 GB:L10328_61 hypothetical protein (GB:L10328_61) {Escherichia coli}	31.9149	48.227	855
MG126	15496	153922	MG126 15496 153922 GB:M24068_1	tryptophanyl-tRNA synthetase (trpS) {Bacillus subtilis}	41.1585	61.5854	1041
MG127	15499	155432	SP:P19434	hypothetical protein (SP:P19434) (Streptomyces viridochromogenes)	25.9615	49.0385	435
MG128	5544		GB:U00021_1	156219 GB:U00021_1 hypothetical protein (GB:U00021_19) {Mycobacterium leprae}	27.7027 49.3243	49.3243	777
MG129	5622	156572		PTS glucose-specific permease {Bacillus stearothermophilus}	25.4545	51.8182	351
MG130	MG130 15656		158016 GB:M91593_1	1593_1 hypothetical protein (GB:M91593_1) {Mycoplasma mycoides}	30.6773	55.7769	1452
MG131	MG131 15802	158243	158243 GB:M31161_3	1161_3 hypothetical protein (GB:M31161_3) {Spiroplasma citri}	21.5909	56.8182	222
MG132	MG132 15900	158583	SP:P32083	hypothetical protein (SP:P32083) {Mycoplasma hyorhinis}	30.0971	56.3107	423
MG136	5 16096	MG136 16096 162431 GB:D20	GB:D26185_1 44	lysyl-tRNA synthetase (lysS) {Bacillus subtilis}	45.6212	68.4318	1470
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ain	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG137 16237 6	16237 6	163587	GP:L41518_4	dTDP-4-dehydrorhamnose reductase (rfbD) {Klebsiella pneumoniae}	32.1622	55.9459	1212
MG139 16547 0	16547 0	167176	GB:L18927_2	hypothetical protein (GB:L18927_2) {Buchnera aphidicola}	28.5714 62.8571	62.8571	1707
MG143 18285		183188	SP:P09170	hypothetical protein (SP:P09170) {Escherichia coli}	25	53.7037	336
MG145	18405 5	184861	GB:M35367_1	protein X {Pseudomonas fluorescens}	29.0698	48.4496	807
MG148 18730		188530	GB:L18	965_6 hypothetical protein (GB:L18965_6) {Thermophilic bacterial sp.}	25.2874	52.8736	1227
MG150 19004	19004 8		190365 SP:P38518	ribosomal protein S10 (rpS10) {Thermotoga maritima}	48.913	71.7391	318
MG152	19114 5	191777	SP:P28601	ribosomal protein L4 (грL4) {Bacillus stearothermophilus}	39.2345	63.1579	633
MG153 19178		192101	SP:P04454	ribosomal protein L23 (трL23) {Bacillus stearothermophilus}	38.7097	62.3656	318
MG154	19210 4	192958	MG154 19210 192958 SP:P04257	ribosomal protein L2 (rpL2) {Bacillus stearothermophilus}	58.7814 72.4014	72.4014	855

OID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG155 19296		193221	GB:X02613_6	GB:X02613_6 ribosomal protein S19 (rpS19) {Escherichia coli}	58.6207	77.0115	261
MG156 19322	19322	193658 GB:M7	4770_4	ribosomal protein L22 (грL22) {Mycoplasma-like organism}	49.0385	67.3077	432
MG157	19366	MG157 19366 194467	SP:P02353	ribosomal protein S3 (rpS3) {Mycoplasma capricolum}	46.729	67.2897	804
MG158 19447		194889	194889 SP:P02415	ribosomal protein L16 (грL16) {Mycoplasma capricolum}	63.5037	78.1022	414
MG159	19489	195491	SP:P38514	ribosomal protein L29 (грL29) {Thermotoga maritima}	41.6667	65	009
MG160 19549	19549 4	195748	SP:P10131	ribosomal protein S17 (rpS17) {Mycoplasma capricolum}	51.1905	67.8571	255
MG161 19575 5	19575	196120	196120 SP:P04450	ribosomal protein L14 (rpL14) {Bacillus stearothermophilus}	63.1148	86.0656	366
MG162	19612 3	196446	SP:P04455	ribosomal protein L.24 (rpL.24) {Bacillus stearothermophilus}	44.5783	66.2651	324
MG163	MG163 19645 5	196994	SP:P08895	ribosomal protein L5 (rpL5) {Bacillus stearothermophilus}	57.5419	77.095	540

UID	endS	end3	db_match	db_match name	per_id	per_si m	gene_len
MG164	MG164 19700	197182	GB:X06414_1 5	ribosomal protein S14 (rpS14) {Mycoplasma capricolum}	70.4918	83.6066	183
MG165 19717 9	19717	197601	SP:P04446	ribosomal protein S8 (rpS8) {Mycoplasma capricolum}	46.875	71.0938	423
MG166 19761			198162 SP:P04448	ribosomal protein L6 (rpL6) {Mycoplasma capricolum}	46.9945 66.6667	2999.99	552
MG167 19816	19816	198511	GB:M57624_1	198511 GB:M57624_1 ribosomal protein L18 (rpL18) {Bacillus stearothermophilus}	42.9825	57.8947	345
MG169 19916 0	19916 0	199609	SP:P10138	ribosomal protein L15 (rpL15) {Mycoplasma capricolum}	41.8919	66.2162	450
MG170 19961	19961 2	201036	201036 SP:P10250	preprotein translocase secY subunit (secY) {Mycoplasma capricolum}	38.7892	68.1614	1425
MG171 20103	20103 3	201674	GB:M88104_2	GB:M88104_2 adenylate kinase (adk) {Bacillus stearothermophilus}	32.2115	57.6923	642
MG172	MG172 20168 0	202423	GB:D00619_5	methionine amino peptidase (map) {Bacillus subtilis}	36.2903	58.4677	744
MG173	20242 6	202635	GB:M26414_1	MG173 20242 202635 GB:M26414_1 initiation factor 1 (infA) {Bacillus subtilis}	48.5294 67.6471	67.6471	210

gene_len	111	984	369	822	1755	1 987	1002	5 423	3 177
per_si m	83.7838	65.9933	59.1304	62.0253	65.6805	51.6854	52.8571	62.6866	72.7273
per_id	78.3784	39.3939	34.7826	34.5992	40.5325	22.4719	27.1429	31.3433	09
db_match name	ribosomal protein L36 (rpL36) {Chlamydia trachomatis}	126414_5 RNA polymerase alpha core subunit (rpoA) {Bacillus subtilis}	126414_6 ribosomal protein L17 (rpL17) {Bacillus subtilis}	haemolysin secretion ATP-binding protein (hlyB) {Proteus vulgaris}	MG187 21676 218516 GB:M77351_7 ATP-binding protein (msmK) {Streptococcus mutans}	membrane protein (msmF) {Streptococcus mutans}	220436 GB:M77351_5 membrane protein (msmG) {Streptococcus mutans}	translation initiation factor IF3 (infC) {Bacillus stearothermophilus}	ribosomal protein L35 (rpL35) {Bacillus stearothermophilus}
db_match	SP:P38015	GB:M26414_5	GB:M26414_6	SP:P11599	GB:M77351_7	219508 GB:M77351_4	GB:M77351_5	GB:X16188_1	PIR:S05347
end3		204499	204515	205694	218516	219508	220436	236057	MG197 23606 236239 PIR:
cpu2	MG174 20264 202759			1	21676 2	21852	MG189 21943	MG196 23563 5	23606
ain	MG174	MG177 20351 6	MG178 20451 5	MG179 20487	MG187	MG188	MG189	MG196	MG197

OID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG198 23624 5		236616 SP:Q054	SP:Q05427	ribosomal protein L20 (rpL20) {Mycoplasma fermentans}	57.5221	73.4513	372
MG201 23916			GB:M84964_2	239813 GB:M84964_2 heat shock protein (grpE) {Bacillus subtilis}	31.677	49.6894	651
MG205 24559 6	24559 6	244568 GB:M8	GB:M84964_1	4964_1 hypothetical protein (GB:M84964_1) {Bacillus subtilis}	30.9942	58.1871	1029
MG213 25257	252 <i>57</i> 9	253991	GB:L09228_16	GB:L09228_16 hypothetical protein (GB:L09228_16) {Bacillus subtilis}	27.1186	54.661	1413
MG214 25397		254598	GB:L09228_17	254598 GB:L09228_17 hypothetical protein (GB:L09228_17) {Bacillus subtilis}	34.8571	59.4286	621
MG215 25462 0		255588 SP:P202	SP:P20275	6-phosphofructokinase (pfk) {Spiroplasma citri}	39.441	63.0435	696
MG217 25804 0	25804 0	259155	SP:P29126	bifunctional endo-1,4-beta-xylanase xyla precursor (xynA) {Ruminococcus flavefaciens}	37.5839	48.9933	1116
MG219 26559 6	26559 6	266039	GB:M87491_1	266039 GB:M87491_1 IgA1 protease {Haemophilus influenzae}	32.2314	51.2397	444
MG220 26638	26638 2	266077	266077 GB:Z26883_1	pre-procytotoxin (vacA) {Helicobacter pylori}	36.1446 51.8072	51.8072	306

ain	end5	end3	db_match	db_match name	per_id	per_si g	gene_len
MG222	2670 8 0	MG222 26708 268006 GB:D1		3483_6 hypothetical protein (GB:D10483_63) {Escherichia coli}	35.1974	56.5789	927
MG224 26924 9	$\overline{}$	270355	GB:U06462_1	cell division protein (ftsZ) {Staphylococcus aureus}	30.8824	50.7353	1107
MG234 27949	27949 1	279802	GB:K02665_2	ribosomal protein L27 (rpL27) {Bacillus subtilis}	64.3678	80.4598	312
MG235	27979 8	280670	SP:P12638	endonuclease IV (nfo) {Escherichia coli}	29.368	51.3011	873
MG245	MG245 29344 6	293940 GB:M1	GB:M12965_1	2965_1 hypothetical protein (GB:M12965_1) {Escherichia coli}	33.8462	56.9231	495
MG247 29548	29548	294768	SP:P31056	hypothetical protein (SP:P31056) {Escherichia coli}	32.973	56.2162	717
MG248	MG248 29612	295474 GP:U1	GP:U17284_2	major sigma factor (rpoD) {Listeria monocytogenes}	28.4848	51.5152	654
MG251	30080	299465	MG251 30080 299465 GB:L08106_1	glycyl-tRNA synthetase {Bombyx mori}	35.8974	56.1772	1338
MG252	MG252 30155 0	300825 GP:Z3	GP:Z33076_2	rRNA methylase {Mycoplasma capricolum}	38.8626	59.7156	726

UID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG253 30283	30283 9	301556 GB:D20	5185_1	cysteinyl-tRNA synthetase (cysS) {Bacillus subtilis}	34.3458	56.3084	1284
MG257 30763 5	30763 5	307925 GB:L19	GB:L19201_78	9201_78 ribosomal protein L31 (rpL31) {Escherichia coli}	37.3134	61.194	291
MG258 30792	30792 8	309004 GB:M1		1519_1 peptide chain release factor 1 (RF-1) {Escherichia coli}	43.1677	66.4596	1077
MG259	30900 8	310375 GB:D28	8567_2	protoporphyrinogen oxidase (hemK) {Escherichia coli}	30.5732	54.1401	1368
MG260	31050 9	MG260 31050 312803	GB:Z32651_1	GB:Z32651_1 hypothetical protein (GB:Z32651_1) {Mycoplasma pneumoniae}	57.1429	71.4286	2295
MG262	31833 0	MG262 31833 319202 GB:L1	1920_1	DNA polymerase I (poll) {Mycobacterium tuberculosis}	29.9419	47.9651	873
MG264	32104 4	321637	GB:M64324_1	MG264 32104 321637 GB:M64324_1 6-phosphogluconate dehydrogenase (gnd) {Escherichia coli}	29.8507	47.7612	594
MG265 32241		321 <i>57</i> 9 GB:L10		3328_61 hypothetical protein (GB:L10328_61) {Escherichia coli}	27.193	48.6842	834
MG268 32587		325194 GB:U01	1881_2	deoxyguanosine/deoxyadenosine kinase(I) subunit 2 {Lactobacillus acidophilus}	29.5181	49.3976	684

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aın	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG270 32844	32844	327435	GB:U1	4003_2 hypothetical protein (GB:U14003_297) {Escherichia coli}	38.2838	87.758	1008
MG272 33098		329833	329833 GB:M81753_3	dihydrolipoamide acetyltransferase (pdhC) {Acholeplasma laidlawii}	45.1524	62.0499	1152
MG273	33221 4	331237	GB:M81753_2	pyruvate dehydrogenase E1-beta subunit (pdhB) {Acholeplasma laidlawii}	55.0314	76.7296	978
MG274	33330 8	MG274 33330 332235 GB:M	81753_1	pyruvate dehydrogenase E1-alpha subunit (pdhA) {Acholeplasma laidlawii}	42.9825	61.1111	1074
MG277 33832		335414 GB:L	GB:L16960_2	spore germination apparatus protein (gerBB) {Bacillus subtilis}	31.2	55.2	2910
MG280	MG280 34192	341177 GB:Z	GB:Z35086_1	sensory rhodopsin II transducer (htrII) {Natronobacterium pharaonis}	15.7143	46.6667	744
MG288	MG288 35303	351793	GB:L04466_1	protein L {Peptostreptococcus magnus}	31.1475 50.8197	50.8197	1242
MG290	MG290 35511	355853	SP:P15361	ATP-binding protein P29 {Mycoplasma hyorhinis}	32.3009	58.8496	735
MG292	MG292 36059	357893	GB:J01581_1	alanyl-tRNA synthetase (alaS) {Escherichia coli}	33.8403	55.64	2700

OID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG295 36402	36402 2	362922	362922 SP:P25745	hypothetical protein (SP:P25745) {Escherichia coli}	34.7107	57.0248	1101
MG299	36969 4	368735	MG299 36969 368735 SP:P39646	phosphotransacetylase (pta) {Clostridium acetobutylicum}	44.6541	63.522	096
MG303 37399 8	37399 8	372928	372928 GB:M61017_1	membrane transport protein (glnQ) {Bacillus stearothermophilus}	31.982	54.955	1071
MG304 37474	37474 1	373983 GB:U1	GB:U13043_1	membrane associated ATPase (cbiO) {Propionibacterium freudenreichii}	30.0448	53.8117	759
MG310	38646 2	MG310 38646 387265 GB:D1	1037_1	proline iminopeptidase (pip) {Bacillus coagulans}	29.2079	51.4851	804
MG311	38789 2	387278	MG311 38789 387278 GB:M59358_1	ribosomal protein S4 (rpS4) {Bacillus subtilis}	43	65.5	615
MG313 39202	39202 3	391397	391397 GP:L38997_5	cytadherence-accessory protein (hmw1) {Mycoplasma pneumoniae}	53.8462	79.8077	627
MG315	39455 0	393660	MG315 39455 393660 GP:L38997_3	cytadherence accessory protein (hmw1) {Mycoplasma pneumoniae}	44.3878	868.69	891
MG316	39558 3	MG316 39558 394477 GB:L1	5202_4	competence locus E (comE3) {Bacillus subtilis}	30.4933	52.4664	1107

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ain	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG322	MG322 40539 403725			GB:D17462_1 Na+ ATPase subunit J (ntpJ) {Enterococcus hirae}	31.0811	56.3063	1674
MG323	40545 5	MG323 40545 406135	GB:D37799_6	hypothetical protein (GB:D37799_6) {Bacillus subtilis}	27.5701	54.2056	189
MG325 40895		408795	SP:P23375	ribosomal protein L33 (rpL33) {Bacillus stearothermophilus}	58.1395	69.7674	159
MG326	MG326 40985	408973	GB:Z18629_1	hypothetical protein (GB:Z18629_1) {Bacillus subtilis}	27.0758	52.7076	885
MG329	41431	412975	GB:U00021_5	hypothetical protein (GB:U00021_5) {Mycobacterium leprae}	32.1839	54.2529	1344
MG332	41632 9	415613	GB:D10165_3	hypothetical protein (GB:D10165_3) {Escherichia coli}	26.9231	49.1453	7117
MG346	MG346 44392	444419	GB:M65289_3	hypothetical protein (GB:M65289_3) {Bacillus stearothermophilus}	37.9747	60.1266	498
MG347	MG347 44441	445042	SP:P32049	hypothetical protein (SP:P32049) {Escherichia coli}	28.4615	46.9231	630
MG351	MG351 44966 5	450216	450216 SP:P37981	inorganic pyrophosphatase (ppa) {Thermoplasma acidophilum}	38.8535 61.7834	61.7834	552

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aro	endo	end3	db_match	db_match name	per_1d	per_sı m	gene_ien
MG355	MG355 45375	451616	GB:M29364_2	GB:M29364_2 ATP-dependent protease binding subunit (clpB) {Escherichia coli}	47.7337	70.6799	2142
MG356 45475	45475 3	453914		GB:M27280_1 lic-1 operon protein (licA) {Haemophilus influenzae}	27.77.8	56.25	840
MG359	45734 7	MG359 45734 458267 GB:M2		1298_2 Holliday junction DNA helicase (ruvB) {Escherichia coli}	34.6939	64.966	921
MG360 45949 5	45949 5	458263	SP:P14303	UV protection protein (mucB) {Salmonella typhimurium}	22.0859	48.1595	1233
MG363	46049 7	460667	MG363 46049 460667 GB:M29698_2	ribosomal protein L32 (rpL32) {Escherichia coli}	48.1481	62.963	171
MG364	46101 5	461686	GB:M95954_1	MG364 46101 461686 GB:M95954_1 mobilization protein (mob13) {Leuconostoc oenos}	30.8725 53.6913	53.6913	672
MG367 46543	46543 4	464649	GB:X02673_1	ribonuclease III (mc) {Escherichia coli}	30.1724	65.5172	786
MG380 47899	47899 9	479574	GB:L10328_10 5	GB:L10328_10 glucose inhibited division protein (gidB) {Escherichia coli}	24.8276	51.7241	576
MG382	48069 1	MG382 48069 481329 SP:P312	SP:P31218	uridine kinase (udk) {Escherichia coli}	34.4828 62.5616	62.5616	639

	shua	end3	db match	db_match name	per_id	per_si	gene_len
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MG383 48207 481332	48207		GB:M15811_1	sporulation protein (outB) {Bacillus subtilis}	36.3636	54.9784	744
MG384 48336 482071	48336		GB:M24537_2	GTP-binding protein (obg) {Bacillus subtilis}	39.627	62.0047	1299
MG387	49071	489842	SP:P37214	GTP-binding protein era homolog (spg) {Streptococcus mutans}	27.3859	51.0373	870
MG396 50071	50071	500264	GB:M80797_2	500264 GB:M80797_2 galactosidase acetyltransferase (lacA) {Streptococcus mutans}	40.5797	57.971	456
MG398	50282	502425 SP:P33	SP:P33255	ATP synthase epsilon chain (atpC) {Mycoplasma gallisepticum}	36.9231	55.3846	399
MG402	50720	506674 SP:P33	SP:P33254	ATP synthase delta chain (atpH) {Mycoplasma gallisepticum}	33.9181	58.4795	528
MG403	MG403 50782		507197 SP:P33256	ATP synthase B chain (atpF) {Mycoplasma gallisepticum}	36.5979	66.4948	624
MG404	MG404 50813	507826	SP:P33258	ATP synthase C chain (atpE) {Mycoplasma gallisepticum}	05	74.359	306
MG407	MG407 51083	509463	509463 GB:L29475_4	enolase (eno) {Bacillus subtilis}	54.0793	74.1259	1374
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UID	end5	end3	db_match	db_match name	per_id	per_si m	gene_len
MG408	51090 3	511373	MG408 51090 511373 SP:P14930	pilin repressor (pilB) {Neisseria gonorrhoeae}	49.2188	68.75	471
MG409 51205 0	51205 0	511376 GB:L10	GB:L10328_88	328_88 peripheral membrane protein U (phoU) {Escherichia coli}	27.027	48.6486	675
MG420	52414 4	523365	MG420 52414 523365 GB:D26185_8	DNA polymerase III subunit (dnaH) {Bacillus subtilis}	49.115	68.5841	780
MG424 53147	53147 9	531222	SP:P05766	ribosomal protein S15 (BS18) {Bacillus stearothermophilus}	48.1481	71.6049	258
MG426	53304 0	533231	MG426 53304 533231 GB:L12244_2	ribosomal protein L28 (rpL28) {Bacillus subtilis}	36.0656	59.0164	192
MG429	53603 6	534321	MG429 53603 534321 GB:M69050_2	PEP-dependent HPr protein kinase phosphoryltransferase (ptsI) {Staphylococcus carnosus}	46.4789	66.5493	1716
MG430	53756 3	536043	MG430 53756 536043 GB:L29475_3	phosphoglycerate mutase (pgm) {Bacillus subtilis}	45.1866	62.4754	1521
MG432 53954 6		538353	SP:P27712	hypothetical protein (SP:P27712) {Spiroplasma citri}	28.436	48.8152	1194
MG433 53963 2		540525 GB:M3		1161_2 elongation factor Ts (tsf) {Spiroplasma citri}	39.0572	62.6263	894

QIA	end5	end3	db_match	db_match name	per_id	per_si g	gene_len
MG434 54084 8	54084 8	541237	541237 GB:D26562_5 6	mukB suppressor protein (smbA) {Escherichia coli}	40.8696 61.7391	61.7391	390
MG435 54124		541788	GB:D26562_5	ribosome releasing factor (frr) {Escherichia coli}	34.9112	57.3965	549
MG438 54300	54300 4	544152	GB:J01631_1	restriction-modification enzyme EcoD specificity subunit (hsdS) {Escherichia coli}	24.5734	45.7338	1149
MG442 54769		546881	GB:U00021_5	hypothetical protein (GB:U00021_5) {Mycobacterium leprae}	26.8966	42.069	810
MG443 54884		547665 GB:D	16311_1	hypothetical protein (GB:D16311_1) {Bacillus subtilis}	26.1818	52	1185
MG444 54922		548868 SP:P3(SP:P30529	ribosomal protein L19 (rpL19) {Bacillus stearothermophilus}	49.1071	69.6429	357
MG445 54990	54990 3	549211	SP:P36245	tRNA (guanine-N1)-methyltransferase (trmD) {Salmonella typhimurium}	40.8072	64.1256	693
MG446	MG446 55017	549906 SP:P2	SP:P21474	ribosomal protein S16 (BS17) {Bacillus subtilis}	48.7805	64.6341	267
MG448	MG448 55289		552448 GB:Z33052_1	pilin repressor (pilB) {Mycoplasma capricolum}	53.4884	72.093	450

ala	end5	end3	db match	db match name	per id	per si	gene_len
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MG454	55777 0	557306	MG454 55777 557306 SP:P23929	osmotically inducible protein (osmC) {Escherichia coli}	28.4091 51.1364	51.1364	465
MG457	56260 2	MG457 56260 560497 GB:D2	6185_1	cell division protein (ftsH) {Bacillus subtilis}	49.7445 68.1431	68.1431	2106
MG461	56620 3	564929	GB:X73124_9 4	MG461 56620 564929 GB:X73124_9 hypothetical protein (GB:X73124_94) {Bacillus subtilis}	40	64.2857	1275
MG464	56955 4	MG464 56955 568400 GB:DI		4982_3 hypothetical protein (GB:D14982_3) {Mycoplasma capricolum}	32.3699 53.7572	53.7572	1155
MG465	MG465 56991	569529	GB:D14982_2	RNaseP C5 subunit (rnpA) {Mycoplasma capricolum}	40	58.75	384
MG466	57002 7	MG466 57002 569884 GB:L1		0328_67 ribosomal protein L34 (rpL34) {Escherichia coli}	67.3913 80.4348	80.4348	144
MG470	58003 0	579224	GB:D26185_5 5	MG470 58003 579224 GB:D26185_5 SpoOJ regulator {Bacillus subtilis}	27.8884 53.3865	53.3865	807

	per_id match_info	61.6667 MG002(1 - 930 of 930) GB:U09251(298 · 1227 of 6140)	99.3846 MG003(1 - 1950 of 1950) GB:U09251(1315-3264 of 6140)	99.8804 MG004(1 - 2508 of 2508) GB:U09251(3282 - 5789 of 6140)	0 MG191(1 - 4332 of 4332) GB:M31431(1066 - 5397 of 8760)	100 MG192(1 - 3156 of 3156) GB:M31431(5402 - 8557 of 8760)	65.2632 MG232(1 - 300 of 300) GB:U02141(138 - 437 of 827)	100 MG233(1 - 297 of 297) GB:U02141(433 - 729 of 827)	56.6265 MG287(1 - 252 of 252) GB:U01810(152 - 403 of 917)	71.6535 MG417(1 - 396 of 396) GB:U0174(127 - 522 of 620)
	Þ	19	66	66	00	=	ŏ,	=	v)	L .
	per_sim	40	99.3846	99.8804	001	100	37.8947	98	34.9398	51.9685
Table 1(b)	db match name	heat shock protein (dnaJ) {Lactococcus lactis}	DNA gyrase subunit B (gyrB) {Mycoplasma genitalium}	DNA gyrasc subunit A (gyrA) (Mycoplasma genitalium)	attachment protein, MgPa operon (mgp) (Mycoplasma genitalium)	114 kDa protein, MgPa operon (mgp) {Mycoplasma genitalium}	ribosomal protein L21 (rpL21) (Bacillus subtilis)	ribosomal protein L21 homolog (Mycoplasma genitalium)	nodulation protein F (nodF) {Rhizobium leguminosarum}	ribosomal protein S9 (中S9) {Bacillus stearothermophilus}
	db match	SP:P35514	GB:U09251_3	GB:U09251_4	MG191 221571 225902 SP:P20796	SP:P22747	MG232 278904 279203 SP:P26908	MG233 279199 279495 GP:U02141_2	SP:P04686	MG417 521868 521473 SP:P07842
	end3		4795	7320	225902		279203	279495	349133	521473
	spu4		2846		221571	MG192 225907 229062	278904	279199	MG287 348882	521868
		02	MG003	MG004 4813	MG191	MG192	MG232	MG233	MG287	MG417

10	
15	
20	
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35	
40	
45	

Table 1(c)

match_info	MG001(507 - 801 of 801) GB:U09251(1 - 295 of 6140)	MG005(1 - 377 of 1251) GB:U09251(5764 - 6140 of 6140)	MG005(16 - 337 of 1251) GB:U02210(1 - 322 of 322)	MG007(762 - 711 of 762) GB:U02216(270 - 321 of 321)	MG008(264 - 1 of 1326) GB:U02216(1 - 264 of 321)	MG011(473 - 767 of 861) GB:U02257(2 - 296 of 296)	MG014(1005 - 678 of 1869) GB:U02235(1 - 326 of 326)	MG018(1281 - 1067 of 1281) GB:U01723(89 - 304 of 304)	MG018(409 - 105 of 1281) GB:U02179(1 - 305 of 305)	MG018(592 - 896 of 1281) GB:U01757(1 - 305 of 305)
per_id	001	66.3438	66.3438	45.3901	59.7753		52.6316	60.0917	60.0917	60.0917
per_sim	lium} 100	42.615	42.615	22.695	31.9101	•	28.0702	36.6972	36.6972	36.6972
db_match name	DNA polymerase III beta subunit (dnaN) {Mycoplasma genitalium} 100	seryl-IRNA synthetase (serS) {Bacillus subtilis}	seryl-IRNA synthetase (serS) (Bacillus subtilis)	DNA polymerase III subunit (dnaH) {Bacillus subtilis}	thiophene and furan oxidizer (tdhF) {Bacillus subiilis}		transport ATP-binding protein (msbA) {Escherichia coli}	helicase (mot1) {Saccharomyces cerevisiae}	helicase (mot1) {Saccharomyces cerevisiae}	helicase (mot1) {Saccharomyces cerevisiae}
db_match	GB:U09251_1	GB:D26185_77	GB:D26185_77	GB:D26185_83	GB:D26185_60		SP:P27299	SP:P32333	SP:P32333	SP:P32333
end3	1826	8545	8545	8166	11249	12705	17424	22343	22343	22343
end\$	1026	7295	7295	9157	9924	13565	15556	21063	21063	
UID	MG001 1026	MG005 7295	MG005 7295	MG007	MG008	MG011 13565	MG014 15556	MG018 21063	MG018	MG018 21063

5	MG019(44 · 1 of 1167) GB:U01723(1 · 44 of 304)	MG020(723 - 924 of 924) GB:U02229(1 - 202 of 333)	MG021(1 - 129 of 1536) GB:U02229(205 - 333 of 333)	MG021(1318 - 1527 of 1536) GB:X61513(1 - 209 of 209)	MG022(254 - 1 of 435) GB:U01721(1 - 254 of 299)	MG025(514 - 894 of 894) GB:U02253(1 - 381 of 649)	MG026(1 - 262 of 570) GB:U02253(388 - 649 of 649)	MG029(1 - 93 of 558) GB:U01773(210 - 302 of 302)	MG030(414 - 618 of 618) GB:U01773(1 - 205 of 302)	MG031(1473 - 1701 of 4353) GB:U01807(1 - 229 of 229)	MG031(2923 - 3309 of 4353) GB:U01712(1 - 387 of 387)	MG031(3330 - 3676 of 4353) GB:U02208(1 - 347 of 347)
10	MG019(44 GB:U01723	MG020(723 GB:U02229(MG021(1 GB:U0222	MG021(13 GB:X6151	MG022(25 GB:U0172	MG025(51 GB:U0225	MG026(1 - GB:U02253(388	MG029(1 GB:U0177	MG030(4) GB:U0177	MG031(14 GB:U0180	MG031(2) GB:U017	MG031(3 GB:U022
15	\$1.10\$	55.7895	58.8933	58.8933	49.2647	54.0816	47.2393	45.045	66.6667	59.3182	59.3182	59.3182
20	33.9779	37.5439	37.5494	37.5494	28.6765	27.551	26.3804	27.027	44.9275	38.0303	38.0303	38.0303
25	ctis}	onorrhoeae)	llus subtilis}	ilus subtilis}	acillus subtilis}		{1	aphylococcus aureus}	uracil phosphoribosyltransferase (upp) (Mycoplasma hominis)	na pulmonis)	na pulmonis}	na pulmonis}
30	heat shock protein (dna) {Lactococcus lactis}	proline iminopeptidase (pip) (Neisseria gonorrhoeae)	methionyl-tRNA synthetase (metS) {Bacillus subtilis}	methionyl-tRNA synthetase (metS) {Bacillus subtilis}	RNA polymerase delta subunit (rpoE) {Bacillus subtilis}	erocolitica}	clongation factor P (cfp) {Escherichia coli}	hypothetical protein (GB:L19300_1) (Staphylococcus aureus)	osyltransferase (upp) (DNA polymerase III (poIC) {Mycoplasma pulmonis}	DNA polymerase III (poIC) {Mycoplasma pulmonis}	DNA polymerase III (poIC) {Mycoplasma pulmonis}
35	heat shock protein (proline iminopeptid	methionyl-tRNA sy	methionyl-1RNA sy	RNA polymerase d	TrsB (Yersinia enterocolitica)	clongation factor P	hypothetical protei	uracil phosphoribo	DNA polymerase	DNA polymerase	DNA polymerase
40	SP:P35514	GB:Z25461_2	GB:D26185_101	GB:D26185_101	GB:M21677_1	GP:Z47767_4	GB:U14003_62	GB:L19300_1	GB:Z27121_3	GB:U06833_1	GB:U06833_1	GB:U06833_1
45	23554	24464	26002	26002	26469	29544	30120	31145	31707	32361	32361	32361
	22388	23541	24467	24467	26035	28651	29551	31702	32324	36713	36713	MG031 36713
50	MG019	MG020	MG021	MG021	MG022	MG025	MG026	MG029	MG030	MG031	MG031	MG031

MG036(1115 - 1650 of 1650) GB:U01814(1 - 532 of 1006)	MG036(1407 - 1638 of 1650) GB:X61511(1 - 232 of 232)	MG036(1412 - 1160 of 1650) GB:X61523(1 - 252 of 252)	MG037(1 - 500 of 1350) GB:U01814(508 - 1006 of 1006)	MG040(1341 - 1552 of 1773) GB:U02125(1 - 212 of 212)	MG045(381 - 4 of 1449) GB:U02166(1 - 378 of 378)	MG047(787 - 1070 of 1149) GB:U02123(1 - 284 of 284)	MG051(1161 - 1263 of 1263) GB:U02191(1 - 103 of 183)	MG052(1 - 69 of 390) GB:U02191(115 - 183 of 183)	MG052(320 - 390 of 390) GB:U02108(1-71 of 212)	MG053(1 - 140 of 1650) GB:U02108(74 - 212 of 212)	MG054(688 - 44 of 948) GB:U01710(1 - 645 of 645)
62.8731	62.8731	62.8731	52.2788	48.0469		60.5556	73.6342	64.2276	64.2276	58.0882	\$1.4286
40.8582	40.8582	40.8582	34.3164	30.8594		43.6111	52.7316	38.2114	38.2114	38.7868	30.8571
aspartyl-tRNA synthetase (aspS) {Thermus aquaticus}	aspartyl-tRNA synthetase (aspS) {Thermus aquaticus}	aspartyl-tRNA synthetase (aspS) {Thermus aquaticus}	pre-B cell enhancing factor (PBEF) {Homo sapiens}	membrane lipoprotein (tmpC) {Treponema pallidum}		S-adenosylmethionine synthetase 2 (metX) {Escherichia coli}	thymidine phosphorylase (deoA) {Mycoplasma pirum}	cytidine deaminase (cdd) {Mycoplasma pirum}	cytidine deaminase (cdd) (Mycoplasma pirum)	phosphomannomutase (cpsG) {Mycoplasma pirum}	transcription antitermination factor (nusG) (Bacillus subtilis)
SP:P36419	SP:P36419	SP.P36419	GP:U02020_1	SP:P29724		SP:P30869	GB:L13289_3	GB:L13289_4	GB:L13289_4	GB:L13289_5	GB:D13303_4
43426	43426	43426	44751	49353	54653	56737	61003	61404	61404	63056	63039
MG036 41777	MG036 41777	41777	43402	MG040 47581	53205	MG047 55589	59741	61015	61015	61407	MG054 63986
MG036	MG036	MG036	MG037	MG040	MG045	MG047	MG051	MG052	MG052	MG053	MG054

0

5	MG054(948 - 719 of 948) GB:U02236(45 - 274 of 276)	MG055(1 - 326 of 369) GB:U02240(23 - 348 of 348)	MG058(72 · 1 of 891) GB:U01693(1 · 72 of 350)	MG059(435 - 247 of 435) GB:U01693(161 - 350 of 350)	MG060(723 - 396 of 891) GB:U02262(1-328 of 328)	MG061(1273 · 613 of 1383) GB:U01705(1 - 661 of 661)	MG062(439 - 761 of 2040) GB:U02138(1 - 323 of 323)	MG063(363 - 626 of 765) GB:U01777(1 - 264 of 264)	MG065(1398 - 1176 of 1398) GB:U02154(133 - 354 of 354)	MG066(126 - 1 of 1944) GB:U02154(1 - 126 of 354)	MG068(1244 - 919 of 1422) GB:U02162(1 - 326 of 326)	MG069(1127 - 849 of 2724) GB:U02207(1 - 279 of 279)
15	51.4286	•	63.5783	62.0155	36.0656 59.8361	30.9091 57.2727	60.5634	51.5038	59.7285	54.9383		43.1596 61.0749
20	30.8571		44.4089	32.5581		~	42.723	26.3158	35.2941	32.5617		btilis}
25 30 35	transcription antitermination factor (nusG) (Bacillus subtilis)		phosphoribosylpyrophosphate synthetase (prs) {Bacillus subtilis}	small protein (smpB) (Escherichia coli)	lipopolysaccharide biosynthesis protein (rfbV) (Salmonella typhimurium)	hexosephosphate transport protein (uhpT) {Salmonella typhimurium}	fructose-permease IIBC component (fruA) {Escherichia coli}	1-phosphofructokinase (fruK) (Escherichia coli)	heterocyst maturation protein (devA) {Anabacna sp.}	transketolase I (TK I) (tktA) (Escherichia coli)		phosphotransferase enzyme II, ABC component (ptsG) (Bacillus subtilis)
40	transc			Small	lipop		fruct	1-ph	hete	trans	•	byo
	GB:D13303_4	•	GB:D26185_114	GB:D12501_1	SP:P26401	GB:M89480_4	SP:P20966	SP:P23539	GB:X75422_1	SP:P27302		SP:P20166
4 5	63039	63993	66231	67210	68541	68526	72570	73432	79083	81033	84042	90951
	63986	64361			67651	80669	70531	72668	77686	79090	82621	88228
50	MG054	MG055	MG058 67121	MG059 67644	MG060 67651	MG061 69908	MG062	MG063	MG065	MG066 7909M	MG068	MG069 88228

cus sp.} 34.3897 \$7.277 MG071(1470 - 1209 of 2622) GB:X61532(1 - 262 of 262)	43.6601 66.7974 MG072(2269 - 2418 of 2418) GB:U01743(1 - 150 of 365)	a coli) 47.9751 67.2897 MG073(1 - 235 of 1968) GB:U01743(131 - 365 of 365)	a coli) 47.9751 67.2897 MG073(1584 - 1240 of 1968) GB:U01698(1 - 345 of 345)	ia coli) 47.9751 67.2897 MG073(305 - 694 of 1968) GB:U02119(1 - 391 of 391)	- MG074(369 - 411 of 411) GB:U01715(1·43 of 576)	. MG075(1 - 467 of 3072) GB:U01715(110 - 576 of 576)	- MG075(1206 - 804 of 3072) GB:U02251(1 - 403 of 403)	- MG075(1927 - 2210 of 3072) GB:U01749(1 - 284 of 284)	- MG075(2841 - 2422 of 3072) GB:U01775(1 - 420 of 420)	iF) {Streptococcus pneumoniae} 46.6403 67.1937 MG080(2268 - 1954 of 2544) GB:U02129(1 - 315 of 315)	iF) {Streptococcus pneumoniae} 46.6403 67.1937 MG080(951 - 646 of 2544) GB:U01758(1 - 306 of 306)
cation-transporting ATPase (pacL) (Synechococcus sp.)	preprotein translocase (secA) (Bacillus subtilis)	excinuclease ABC subunit B (uvrB) {Escherichia coli}	excinuclease ABC subunit B (uvrB) {Escherichia coli}	excinuclease ABC subunit B (uvrB) {Escherichia coli}						oligopeptide transport ATP-binding protein (amiF) {Streptococcus pneumoniae}	oligopeptide transport ATP-binding protein (amiF) {Streptococcus pneumoniae}
SP:P37278	GB:D10279_2	SP:P07025	SP:P07025	SP:P07025						SP:P18766	MG080 106660 109203 SP:P18766
94545	96952 (00686	00686	00686	. 91166	102454	102454	102454	102454	109203	109203
91924	94535	96933				99383	99383		99383		106660
MG071	MG072 9	MG073	MG073 96933	MG073 96933	MG074 98906	MG075	MG075	MG075 99383	MG075	MG080 106660	MG080

5	MG082(446 - 170 of 678) GB:U02113(1 - 278 of 278)	MG083(367 - 220 of 567) GB:U02185(26 - 373 of 373)	MG084(30 - 1 of 870) GB:U02185(1 - 30 of 373)	MG084(794 - 870 of 870) GB:U01783(1 - 77 of 269)	MG087(417 - 349 of 417) GB:U02212(326 - 394 of 394)	81.1688 MG088(305 · 1 of 465) GB:U02212(2 · 306 of 394)	MG089(1878 - 1540 of 2064) GB:U02180(1 - 339 of 340)	MG089(1885 - 2064 of 2064) GB:U02136(1 - 180 of 410)	MG089(687 - 1374 of 2064) GB:U01722(1 - 688 of 688)	MG090(1 - 176 of 624) GB:U02136(235 - 410 of 410)	MG094(1068 - 731 of 1338) GB:U01803(1 - 336 of 336)	MG094(228 - 1 of 1338) GB:U02158(1 - 228 of 301)
10	48.1982 67.5676 MG082(446 GB:U02113(57.3248	46.3542 MG084(30 GB:U02185	46.3542 MG08 GB:U	75.3731 82.0896 MG08 GB:U	81.1688	59.2105 78.0702 MG01 GB:U	59.2105 78.0702 MG0 GB:U	59.2105 78.0702 MG0 GB:U	23.8636 44.3182 MG0 GB:L	55.0228 MG0 GB:L	33.105 55.0228 MG0 GB:L
15	48.1982	38.2166	28.125	28.125	75.3731	64.9351	59.2105	59.2105	59.2105	23.8636	33.105	33.105
20												
25	stearothermophilus}	peptidyl-tRNA hydrolase homolog (pth) (Borrelia burgdorferi)	illus subtilis}	illus subtilis}	ribosomal protein S12 (rpS12) (Bacillus stearothermophilus)	stearothermophilus}	uaticus)	uaticus}	uaticus)	hia coli}	herichia coli}	herichia coli}
30	ribosomal protein L1 (rpL1) (Bacillus stearothermophilus)	drolase homolog (pth	hypothetical protein (SP:P37563) (Bacillus subtilis)	hypothetical protein (SP:P37563) (Bacillus subtilis)	i S12 (ருS12) {Bacillu	ribosomal protein S7 (1757) (Bacillus stearothermophilus)	clongation factor G (fus) {Thermus aquaticus}	elongation factor G (fus) {Thermus aquaticus}	elongation factor G (fus) {Thermus aquaticus}	ribosomal protein S6 (1756) {Escherichia coli}	replicative DNA helicasc (dnaB) {Eschcrichia coli}	replicative DNA helicase (dnaB) {Escherichia coli}
35	ribosomal protein	peptidyl-tRNA hy	hypothetical prote	hypothetical prote	ribosomal proteir	ribosomal proteir	clongation factor	elongation factor	elongation factor	ribosomal protei	replicative DNA	replicative DNA
40	7	1,	m m	52	=	₹	15	11	5	88	93	0\$
	SP:P04447	GB:L32144_1	SP:P37563	SP:P37563	SP:P09901	SP:P22744	SP:P13551	SP:P13551	SP:P13551	SP:P02358	SP:P03005	SP:P03005
45	110352	110921	111786	111786	114311	114795	116871	116871	116871	117549	120184	120184
	109675 110352	110355 110921	110917	110917	113895	114331	114808 116871	114808	114808	116926	118847	118847
50	MG082 1	MG083	MG084	MG084	MG087	MG088	MG089	MG089	MG089	MG090	MG094	MG094 118847

. MG095(355 - 759 of 1194) GB:U01787(1 - 403 of 403)	MG096(1 309 of 1581) GB:U01713(58 366 of 366)	. MG096(361 - 531 of 1581) GB:U01762(1-171 of 171)	32.5688 51.8349 MG097(220 · 694 of 735) GB:U02201(1 - 475 of 475)	23.0769 47.9853 MG098(1260 - 831 of 1431) GB:U01782(1-431 of 431)	23.0769 47.9853 MG098(134 - 467 of 1431) GB:U01701(1 - 334 of 334)	30.8696 54.1304 MG100(533 - 238 of 1431) GB:U01799(1 - 296 of 296)	MG101(89 - 398 of 666) GB:U02103(1 - 309 of 309)	38.5906 59.396 MG102(45 - 367 of 945) GB:U02197(1 - 322 of 322)	MG103(623 - 256 of 840) GB:U02170(1 - 368 of 369)	29.2335 52.2282 MG104(215 - 491 of 2175) GB:U01795(1 - 277 of 277)	27.5362 52.1739 MG108(780 - 598 of 780) GB:U02111(33 - 215 of 215)
			uracil DNA glycosylase (ung) {Escherichia coli}	p48 cggshell protein (p48) {Schistosoma mansoni}	p48 eggshell protein (p48) {Schistosoma mansoni}	PET112 protein (Saccharomyces cerevisiae)		thioredoxin reductase (1rxB) {Escherichia coli}		virulence associated protein homolog (vacB) (Escherichia coli)	protein phosphatase 2C homolog (ptc1) {Saccharomyces cerevisiae}
			MG097 123579 124313 GB:D13169_3	MG098 124416 125846 GP:M74170_2	MG098 124416 125846 GP:M74170_2	MG100 127278 128708 GP:L22072_1		MG102 129347 130291 GB:J03762_1	1	MG104 131384 133558 GB:U14003_91	MG108 135337 136116 SP:P35182
121384	123519	123519	124313	125846	125846	128708	129351	130291	131123	133558	136116
120191	121939	121939	123579	124416	124416	127278	128686	129347	130284	131384	135337
MG095 120191	MG096 121939 123519	MG096 121939 123519	MG097	MG098	MG098	MG100	MG101 128686 129351	MG102	MG103 130284 131123	MG104	MG108

5	MG109(425 · 786 of 1086) GB:U01720(1 · 362 of 362)	MG109(781 - 1084 of 1086) GB:U01748(1-303 of 303)	MG110(140 - 242 of 708) GB:X61518(1 - 102 of 102)	MG110(670 - 378 of 708) GB:U01714(1 - 293 of 293)	MGI11(1 - 98 of 1299) GB:U01747(38 - 135 of 135)	MG112(207 - 473 of 627) GB:U02181(1 - 267 of 267)	MG113(1231 - 941 of 1368) GB:U01692(1-291 of 291)	MG115(198 - 237 of 237) GB:U02127(1 - 40 of 234)	MG116(1 - 183 of 753) GB:U02127(52 - 234 of 234)	MG119(1660 - 1692 of 1692) GB:U02147(1-33 of 301)	MG119(192 - 1 of 1692) GB:U02149(1-192 of 681)	MG120(1 - 259 of 1560) GB:U02147(43 - 301 of 301)
10							9 MG113(12 GB:U0169	MG115(198 GB:U02127(1	MG116(1 GB:U02127			27.4809 51.9084 MG120(1 - GB:U02147(43
	\$2.032\$	52.0325	54.1126	54.1126	53.647	53.8462	64.236	20	•	33.1984 57.6923	33.1984 57.6923	9 51.90
15	33.7398	33.7398	28.5714	28.5714	34.8235 53.6471	33.1361	41,4579 64,2369	32.6087		33.1984	33.1984	27.4809
20						{snu				rrichia coli}	erichia coli}	{5
25	is thaliana}	is thaliana)	cherichia coli}	cherichia coli}	phosphoglucose isomerase B (pgiB) {Bacillus stearothermophilus}	D-ribulose-5-phosphate 3 epimerase (cfxEc) (Alcaligenes eutrophus)	herichia coli}	ichia coli}		methylgalactoside permease ATP-binding protein (mgIA) {Escherichia coli}	methylgalactoside permease ATP-binding protein (mgIA) {Escherichia coli}	ribose transport system permease protein (rbsC) {Bacillus subtilis}
30	kinase (Arabidops	e kinase {Arabidops	B:U14003_76) (Es	3B:U14003_76) {Es	rasc B (pgiB) {Baci	ie 3 epimerase (cfxE	thetase (asnS) {Escl	SP:P31131) (Escher		mease ATP-binding	mease ATP-binding	m permease protein
35	protein serine/threonine kinase (Arabidopsis thaliana)	protein scrinc/threonine kinase {Arabidopsis thaliana}	hypothetical protein (GB:U14003_76) {Escherichia coli}	hypothetical protein (GB:U14003_76) {Escherichia coli}	phosphoglucose isome	D-ribulose-5-phospha	asparaginyl-1RNA synthetase (asnS) {Escherichia coli}	hypothetical protein (SP:P31131) (Escherichia coli)	,	methylgalactoside per	methylgalactoside per	ribose transport syste
4 0							15_1			44_2	44_2	80
	MG109 136179 137264 PIR:S36944	PIR:S36944	GB:U14003_76	GB:U14003_76	SP:P13376	GB:M64173_3	GB:M33145_1	SP:P31131		GB:M59444_2	GB:M59444_2	SP:P36948
45	137264	137264		138087	139403	140022	141406	142550	143314	146663	146663	148232
	36179 1	136179	137380 138087	137380	138105	139396 140022	140039	142314 142550	142562	144972 146663	144972	146673
50	MG109 1.	MG109 L	MG110 1	MG110 1	MG111 1	MG112 1	MG113 140039 141406	MG115	MG116	MG119	MG119	MG120 146673

MG122	149198	151324	MG122 149198 151324 GB:L27797_2	DNA topoisomerase I (topA) (Bacillus subtilis)	38.9222 59.7305	38.9222 59.7305 MG122(1193 - 1443 of 2127) GB:U02134(1 - 251 of 251)
MG122	149198	151324	MG122 149198 151324 GB:L27797_2	DNA topoisomerase I (topA) (Bacillus subtilis)	38.9222 59.7305	38.9222 59.7305 MG122(1578 - 1971 of 2127) GB:U02242(1 - 394 of 394)
MG123	151305	152717	MG123 151305 152717 GB:M91593_1	hypothetical protein (GB:M91593_1) {Mycoplasma mycoides}	23.9837 50.4065	23.9837 50.4065 MG123(1413 - 1236 of 1413) GB:U01796(114 - 291 of 291)
MG124	152767	153072	MG124 152767 153072 GB:J03294_1	thioredoxin (trx) {Bacillus subtilis}	36.0825 65.9794 MG124(64 GB:U01796(MG124(64 - 1 of 306) GB:U01796(1 - 64 of 291)
MG133	MG133 159669 158986	158986			•	MG133(1 - 110 of 684) GB:U02144(237 - 345 of 345)
MG133	MG133 159669 158986	158986		•	•	MG133(435 - 673 of 684) GB:X61537(1 - 238 of 238)
MG134	159797	960091	MG134 159797 160096 GB:M38777_3	hypothetical protein (GB:M38777_3) (Escherichia coli)	28.5714 57.1429	28.5714 57.1429 MG134(109 - 1 of 300) GB:U02144(1 - 109 of 345)
MG135	160913	160074	MG135 160913 160074 PIR:E22845	hypothetical protein 4 (GP:Z33006_1) (Trypanosoma brucei)	30.7692 55.9441	30.7692 55.9441 MG135(485 - 782 of 840) GB:U02114(1 - 298 of 298)
MG138	163590	165383	MG138 163590 165383 GB:K00426_1	GTP-binding membrane protein (lepA) {Escherichia coli}	47.5465 70.5584	47.5465 70.5584 MG138(1237 - 938 of 1794) GB:U02133(2 - 301 of 301)
MG138	163590	165383	MG138 163590 165383 GB:K00426_1	GTP-binding membrane protein (lepA) {Escherichia coli}	47.5465 70.5584	47.5465 70.5584 MG138(1318 - 1794 of 1794) GB:U01745(1 - 477 of 524)
MG138	163590	165383	MG138 163590 165383 GB:K00426_1	GTP-binding membrane protein (lepA) (Escherichia coli)	47.5465 70.5584	47.5465 70.5584 MG138(323 - 591 of 1794) GB:X61521(1 - 269 of 269)
MG140	MG140 175807 179145	179145	•	•		MG140(1 - 41 of 3339) GB:U02110(178-218 of 218)

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5	MG140(2727 - 2429 of 3339) GB:U01730(1 - 297 of 297)	MG140(3302 - 2994 of 3339) GB:U02156(1-308 of 308)	MG140(382 - 834 of 3339) GB:U01729(1 - 454 of 454)	MG140(834 - 616 of 3339) GB:X61512(1 - 220 of 220)	MG140(880 - 1182 of 3339) GB:U01742(1-303 of 303)	MG141(223 - 871 of 1593) GB:U01778(1 - 652 of 652)	MG142(265 - 393 of 1857) GB:U01765(1 - 129 of 129)	MG144(190 - 420 of 837) GB:U02121(1 - 231 of 231)	MG146(1272 • 1174 of 1272) GB:U02223(19 - 117 of 117)	MG149(843 - 765 of 843) GB:U02135(182 - 260 of 260)	MG151(528 - 1 of 771) GB:U02153(1 - 527 of 543)	MGI68(505 - 633 of 633) GB:U01726(1 - 129 of 260)
10	MG140(27 GB:U0173	MG140(33 GB:U0215	MG140(38 GB:U0172	MG140(834 GB:X61512(MG140(880 GB:U01742(1		77 MG142(2 GB:U017	MG144(190 GB:U02121(86 MG146(1 GB:U022	MG149(843 GB:U02135(1		
15					•	30.8743 53.8251	46.0292 64.6677	•	26.2712 52.1186		42.5926 61.5741	55.9748 72.327
20						ubtilis}						
25						(nusA) (Bacillus s	(Bacillus subtilis)		ac}		a capricolum)	arothermophilus}
30						: protein A homolog	tion factor 2 (infB)		pulina hyodysenteri		(rpL3) (Mycoplasm	(rpSS) (Bacillus ste
35						N-utilization substance protein A homolog (nusA) {Bacillus subtilis}	protein synthesis initiation factor 2 (infB) {Bacillus subtilis}		hemolysin (tlyC) (Serpulina hyodysenteriae)		ribosomal protein L3 (rpL3) (Mycoplasma capricolum)	ribosomal protein S5 (rpS5) (Bacillus stearothermophilus)
40	•	•	•	•	•		GB:M34836_1 F	•		·		
					•	SP:P32	GB:M.		GB:X		SP:P10134	GB:M
45	179145	179145	179145	179145	179145	180745	182863	184052	186148	189451	MG151 190372 191142	MG168 198519 199151 GB:M57621_1
	75807		75807	175807		179153	181007	183216	184877	188609	190372	198519
50	MG140 175807 179145	MG140 175807	MG140 175807 179145	MG140 175807 179145	MQ140 175807	MG141 179153 180745 SP.P32727	MG142	MG144 183216 184052	MG146 184877 186148 GB:X73141_2	MG149 188609 189451	MG151	MG168

63.3333 82.5 MG175(22 · 372 of 372) GB:U01733(1 · 351 of 600)	47.7876 69.9115 MG176(1 - 247 of 393) GB:U01733(354-600 of 600)	37.3832 63.0841 MG180(249 - 1 of 912) GB:U01754(1-248 of 265)	37.3832 63.0841 MG180(912 - 784 of 912) GB:U01750(167-295 of 295)	- MG181(171 - 1 of 1260) GB:U01750(1 - 171 of 295)	27.0042 45.1477 MG182(1 · 308 of 732) GB:U02176(70 - 377 of 377)	27.0042 45.1477 MG182(732 · 383 of 732) GB:U02100(31 · 380 of 380)	50.6667 MG183(27 - 335 of 1821) GB:U02198(1 - 309 of 309)	50.6667 MG183(38 - 1 of 1821) GB:U02100(1 - 38 of 380)	42.5249 67.4419 MG184(520 · 719 of 951) GB:U02115(1 - 200 of 201)	62.0833 82.0833 MG190(28 - 1083 of 1083) GB:M31431(1-1056 of 8760)	35.0769 56.3077 MG194(194 - 359 of 1023) GB:U02120(1 - 166 of 166)
63.3	47.7	37.3	37.3		27.0	27.0	30	30	42.5	62.0	35.0
ribosomal protein S13 (rpS13) (Bacillus subtilis)	ribosomal protein S11 (rpS11) {Escherichia coli}	membrane transport protein (gInQ) {Bacillus stearothermophilus}	membrane transport protein (glnQ) {Bacillus stearothermophilus}		pseudouridylate synthase [(hisT) {Escherichia coli}	pseudouridylate synthase I (hisT) {Escherichia coli}	oligoendopeptidase F (pepF) (Lactococcus lactis)	oligoendopeptidase F (pepF) {Lactococcus lactis}	: methyltransferase (ssolM) {Shigella sonnei}	29 kDa protein, MgPa operon (mgp) {Mycoplasma genitalium}	phenylalanyl-tRNA synthetase beta-subunit (pheS) {Escherichia coli}
GB:M26414_3	GB:X02543_2	GB:M61017_1	GB:M61017_1		SP:P07649	SP:P07649	210388 GB:Z3252_1	GB:Z32522_1	GB:M97479_2	PIR:JS0068	MG194 232007 233029 GB:V00291_5
203133	203528	206593	206593	207848	208575	208575	210388	210388	211342	221561	233029
202762 203133	203136	205682	205682	206589	207844	207844	208568	208568	210392		232007
MG175	MG176	MG180	MG180	MG181	MG182	MG182	MG183	MG183	MG184	MG190 220479	MG194

5	25.4597 49.0806 MG195(2044 - 2396 of 2418) GB:U02173(1 - 353 of 353)	MG200(842 - 1227 of 1803) GB:U02163(2 - 387 of 387)	MG203(1216 - 1899 of 1899) GB:U25549(1 - 684 of 2124)	MG204(1 - 1438 of 2343) GB:U25549(687 - 2124 of 2124)	MG204(1950 - 1641 of 2343) GB:U02155(1 - 308 of 308)	MG206(738 - 399 of 1296) GB:U02182(1 - 341 of 341)	MG208(585 - 162 of 588) GB:U01785(1 - 423 of 423)	MG209(730 - 372 of 924) GB:U02214(1 - 359 of 359)	MG210(1 - 116 of 543) GB:U01759(196 - 311 of 311)	MG212(7 - 315 of 804) GB:U02160(5-313 of 313)	57.6017 MG216(1118 - 790 of 1524) GB:U01798(1 - 329 of 329)	MG218(1669 - 1977 of 5415) GB:U02165(1 - 309 of 309)
15	3.4597 49.0806 MC GB	33.5938 51.5625 MC GB	100 100 MG GB	99.7912 99.7912 MG GE	99.7912 99.7912 MG	28.0872 51.0896 Mi GE	ž ö ,	30.4498 55.0173 M GI	32.3944 \$2.1127 M G	32.1429 60.7143 M	35.3319 57.6017 M G	G
20	25	33	3	6	δ.	2	•	3	3		.,	·
25	phenylalanyl-tRNA synthetase beta chain (pheT) {Bacillus subtilis}	etii.)	coplasma genitalium}	coplasma genitalium}	coplasma genitalium}			rerichia coli}	taphylococcus aureus}	1-acyl-sn-glycerol-3-phosphate acetyltransferase (plsC) {Borrelia burgdorferi}	tis}	รกร์
30	NA synthetase beta chair	heat shock protein (dnaJ) {Coxiella burnetii}	topoisomerase IV subunit B (parE) {Mycoplasma genitalium}	topoisomerase IV subunit A (parC) {Mycoplasma genitalium}	topoisomerase IV subunit A (parC) {Mycoplasma genitalium}	excinuclease ABC subunit C (uvrC)		hypothetical protein (SP:P23851) {Escherichia coli}	prolipoprotein signal peptidase (Isp) (Staphylococcus aureus)	erol-3-phosphate acetyltr	pyruvate kinase (pyk) (Lactococcus lactis)	no score generated - score shown is bogus
35	phenylalanyl-tR	heat shock prote	topoisomerase l	topoisomerase l	topoisomerase	excinuclease A	•	hypothetical pr	prolipoprotein	1-acyl-sn-glyc	pyruvate kinas	no score gener
40	SP:P17922	GB:L36455_1	GB:U25549_1	GB:U25549_2	GB:U25549_2	SP.P14951		SP:P23851	GB:M83994_1	GB:L32861_1	257117 GB:L07920_2	PIR:S37536
45	233036 235453	237346 239148	240322 242220	242223 244565	242223 244565	246127 247422	248492 247905	249402 248479	249947 249405	251780 252583	255594	MG218 259176 264590 PIR:S37536
50	MG195 2	MG200	MG203	MG204	MG204 242223	MG206	MG208	MG209 249402	MG210	MG212	MG216	MG218

MG221	MG221 266626 267087	267087	SP:P22186	hypothetical protein (SP:P22186) (Escherichia coli)	28.8732 \$6.338 MG221(337	11(337 - 49 of 462)
					GB:U(GB:U02195(1 - 290 of 290)
MG225	270404	271870	MG225 270404 271870 GB:U14003_71	hypothetical protein (GB:U14003_71) (Escherichia coli)	21.9565 48.0435 MG22 GB:Ui	21.9565 48.0435 MG225(1467 - 1409 of 1467) GB:U02264(289 - 347 of 347)
MG226	MG226 271938 273314	273314	GB:D26562_11	aromatic amino acid transport protein (aroP) {Escherichia coli}	24.5902 47.2131 MG22 GB:U	24.5902 47.2131 MG226(221 - 1 of 1377) GB:U02264(1-221 of 347)
MG227	273789	274649	MG227 273789 274649 SP:P13954	thymidylate synthase (thyA) {Staphylococcus aureus}	56.5972 75.3472 MG22 GB:U	56.5972 75.3472 MG227(577 - 861 of 861) GB:U01718(1 - 285 of 439)
MG228	274652	275131	MG228 274652 275131 GB:X60681_1	dihydrofolate reductase (dhfr) {Lactococcus lactis}	33.12 88 59.5092 MG22 GB:U	33.1288 59.5092 MG228(480 - 385 of 480) GB:U02137(174 - 269 of 269)
MG229	MG229 275140 276159	276159	SP:P17424	ribonucleotide reductase 2 (nrdF) {Salmonella typhimurium}	50 70.0637 MG22 GB:U	70.0637 MG229(1020 - 697 of 1020) GB:U01739(22 - 344 of 344)
MG231	MG231 276646 278808	278808	GB:X73226_1	ribonucleoside-diphosphate reductase (nrdE) {Salmonella typhimurium}	54.1193 73.1534 MG2: GB:U	54.1193 73.1534 MG231(2122 - 2163 of 2163) GB:U02141(1 - 42 of 827)
MG237	281078	281959	•	•	MG2: GB:U	MG237(647 - 882 of 882) GB:U01774(1 - 236 of 289)
MG238	281992	283323	GB:M34066_1	trigger factor (tig.) {Escherichia coli}	24.6193 47.9695 MG2: GB:U	24,6193 47.9695 MG238(420 - 648 of 1332) GB:U01772(1 - 229 of 229)
MG239	MG239 283395 285779	285779	SP:P37945	ATP-dependent protease (lon) (Bacillus subtilis)	43.6268 65.8344 MG2: GB:U	43.6268 65.8344 MG239(1818 - 1449 of 2385) GB:U02148(1 - 370 of 370)
MG240	MG240 286657 285782	285782	GB:M91593_1	hypothetical protein (GB:M91593_1) (Mycoplasma mycoides)	27.8195 53.3835 MG24 GB:U	27.8195 53.3835 MG240(876 - 598 of 876) GB:U01734(27 - 305 of 305)
MG242	MG242 288752 290641	290641			MG2.	MG242(886 - 543 of 1890) GB:U02194(1 - 344 of 344)

0

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5	55.9687 MG244(829 - 1035 of 2109) GB:X61517(1-207 of 207)	MG249(970 - 666 of 1491) GB:X61535(1 - 306 of 306)	MG250(1530 - 1821 of 1821) GB:U01771(1 - 292 of 572)	MG250(648 - 231 of 1821) GB:U02146(1-418 of 418)	MG254(1429 - 1722 of 1977) GB:U02152(1 - 294 of 294)	MG254(37 - 367 of 1977) GB:U01761(1-330 of 330)	MG255(726 - 1095 of 1095) GB:U02164(1-370 of 370)	MG255(729 - 400 of 1095) GB:U02174(1 - 333 of 333)	MG261(2442 - 2159 of 2622) GB:U01738(1 - 284 of 284)	MG263(828 - 489 of 873) GB:U01764(1 - 340 of 340)	MG266(78 - 287 of 2376) GB:U01780(1-210 of 210)	64.2132 MG266(957 - 622 of 2376) GB:U02167(1 - 336 of 336)
10	87 MG244(829 GB:X61517(78 MG250(153 GB:U01771				MG255(720 GB:U0216	MG255(729 - GB:U02174(1 - 3		47.7178 MG263(82 GB:U0176	64.2132 MG266(78 GB:U01780(2132 MG266(95 GB:U0216
15	36.0078 \$5.96	43.6842 66.0526	27.2727 52.2078	27.2727 52.2078	38.2263 59.3272	38.2263 59.3272			31.9115 55.7662	27.8008 47.7	43.401 64.2	43.401 64.2
20		n}										
25	ıfluenzae}	RNA polymerase sigma-A factor (sigA) {Clostridium acctobutylicum}) {Escherichia coli}	scherichia coli}	stearothermophilus}	stearothermophilus}
30	11) (Hacmophilus in	a-A factor (sigA) {((Bacillus subtilis)	(Bacillus subtilis)	herichia coli}	herichia coli}			alpha subunit (dnaE	(GB:L10328_61) {E	ase (IcuS) (Bacillus	asc (leuS) {Bacillus
35	DNA helicase 11 (mulB1) (Hacmophilus influenzae)	.NA polymerase sigm	DNA primase (dnaE) {Bacillus subtilis}	DNA primase (dnaE) {Bacillus subtilis}	DNA ligase (lig) {Escherichia coli}	DNA ligase (lig) {Escherichia coli}	,		DNA polymerase III alpha subunit (dnaE) {Escherichia coli}	hypothetical protein (GB:L10328_61) {Escherichia coli}	leucyl-tRNA synthetase (leuS) {Bacillus stearothermophilus}	leucyl-iRNA synthetase (leuS) {Bacillus stearothermophilus}
40		μ.							41	 		
	293440 GB:M99049_1	SP:P33656	GB:M10040_	GB:M10040_1	GB:M24278_1	GB:M24278_1	•		GB:M19334_4	GB:L10328_61	GB:M88581_1	324809 322434 GB:M88581_
45	93440	296114	297652	297652	302847	302847	306093	306093	318320	321047	322434	322434
		297604 2	299472 2	299472	304823	304823	304999	304999 306093	315699	320175	324809	324809
50	MG244 291332	MG249 29	MG250 2	MG250 2	MG254 3	MG254 3	MG255 3	MG255 3	MG261	MG263	MG266	MG266

25.5144 47.3251 MG269(239 - 1 of 1020) GB:U02215(1 - 239 of 366)	MG271(914 - 1214 of 1371) GB:U01784(1 - 301 of 301)	62.1315 MG275(81 - 1 of 1434) GB:U01786(4 - 84 of 280)	34.3373 58.4337 MG276(540 - 430 of 540) GB:U01786(170 - 280 of 280)	29.1339 55.1181 MG278(391 - 697 of 2160) GB:U01770(1 - 308 of 308)	MG281(748 - 1051 of 1668) GB:U01706(1 - 303 of 303)	14 MG282(483 - 356 of 483) GB:U02104(187 - 314 of 314)	22.6562 46.0938 MG283(839 - 1183 of 1449) GB:U02205(1 - 346 of 346)	MG285(315 - 493 of 1041) GB:U02266(1 - 180 of 180)	35.7798 58.4098 MG289(105 - 1 of 1104) GB:U02132(1 - 105 of 571)	27.9159 54.8757 MG291(1216 - 1629 of 1629) GB:U01768(1 - 415 of 705)	27.9159 54.8757 MG291(279 - 1 of 1629) GB:U02171(1 - 279 of 346)
44 47.325	38.3592 62.306		73 58.43	39 55.118		6 65.6934	62 46.09.	•	98 58.40	59 54.87	59 54.87
25.514	38.359	39.229	34.33	29.13.	•	40.146	22.65	•	35.77	27.91	27.91
surface protein antigen precursor (pag) {Streptococcus sobrinus}	dihydrolipoamide dehydrogenase (pdhD) {Bacillus stearothermophilus}	NADH oxidase (nox) {Enterococcus faccalis}	adenine phosphoribosyltransferase (apt) {Escherichia coli}	stringent response-like protein (rel) {Streptococcus equisimilis}	•	transcription elongation factor (greA) {Rickettsia prowazekii}	prolyl-IRNA synthetase (proS) (Eschcrichia coli)	•	high affinity transport system protein P37 (P37) (Mycoplasma hyorhinis)	transport system permease protein P69 (P69) (Mycoplasma hyorhinis)	transport system permease protein P69 (P69) (Mycoplasma hyorhinis)
MG269 327050 326031 GB:D90354_1	SP:P11959	SP:P37061	MG276 335397 334858 GB:M14040_1	338366 340525 GB:X72832_5		SP:P27640	345181 346629 GB:M97858_1	•	MG289 354023 355126 SP:P15363	MG291 355846 357474 SP:P15362	MG291 355846 357474 SP:P15362
326031	328456		334858	340525	342035	344367	346629	348254	355126	357474	357474
327050	MG271 329826 328456	MG275 334772 333339	335397	338366	343702 342035	344849 344367	345181	MG285 347214 348254	354023	355846	355846
MG269	MG271	MG275	MG276	MG278	MG281	MG282	MG283	MG285	MG289	MG291	MG291

5	MG293(357 - 41 of 732) GB:U02118(1-317 of 317)	MG294(256 - 592 of 1422) GB:U02243(1 - 337 of 337)	MG297(1 - 57 of 1038) GB:U02177(215 - 271 of 271)	MG298(2743 - 2946 of 2946) GB:U02177(1 - 205 of 271)	MG300(1 - 167 of 1248) GB:U02178(167 - 333 of 333)	MG300(935 - 609 of 1248) GB:U02226(1 - 326 of 326)	70.6186 MG300(939 - 1243 of 1248) GB:U02234(1-305 of 305)	MG301(244 - 1 of 1011) GB:U02213(1 - 244 of 364)	MG301(835 - 1011 of 1011) GB:U02178(1 - 177 of 333)	MG302(951 - 865 of 951) GB:U02213(278 - 364 of 364)	MG305(1382 - 1055 of 1785) GB:U02204(1 - 327 of 327)	MG307(3175 - 2042 of 3531) GB:U01767(1 - 1134 of 1134)
10	30.3965 55.9471 MG293(357 GB:U02118(46.2025	57.9439	57.5626	70.6186	70.6186	187 70.6186 MG3 GB:L	56.0606 73.0303 MG3 GB:L	56.0606 73.0303 MG3 GB:L	- MG3	57.4359 75.8974 MG3 GB:U	. MG:
15	30.39(23.1013	36.1371	33.4059	51.2887	51.2887	51.2887			•	57.4	•
20	acillus subtilis}	~						stridium pasteurianı	ostridium pasteurian		_	
25	liesterase (glpQ) {B	8) (Escherichia coli	ichia coli}	ma hyorhinis)	crmotoga maritima}	crmotoga maritima)	ermotoga maritima)	irogenase (gap) (Clo	Irogenase (gap) (Cla		iphylococcus aureus	
30	glycerophosphoryl diester phosphodiesterase (g.lpQ) {Bacillus subtilis}	hypothetical protein (GB:1,19201_18) {Escherichia coli}	cell division protein (fisY) (Escherichia coli)	115 kDa protein (p115) {Mycoplasma hyorhinis}	phosphoglycerate kinase (pgk) {Thermotoga maritima}	phosphoglycerate kinase (pgk) {Thermotoga maritima}	phosphoglycerate kinase (pgk) {Thermotoga maritima}	glyceraldehyde-3-phosphate dehydrogenase (gap) (Clostridium pasteurianum)	glyceraldehyde-3-phosphate dehydrogenase (gap) (Clostridium pastcurianum)		heat shock protein 70 (hsp70) {Staphylococcus aureus}	
35	glycerophospho			115 kDa protei	phosphoglycer	phosphoglycer	phosphoglycer	glyceraldehyd	glyceraldehyd			•
40	SP:P37965	GB:L19201_18	GB:U00039_18	368529 365584 GB:M34956_1	SP:P36204	SP:P36204	s SP:P36204	2 GB:X72219_1	370952 GB:X72219_1	,	MG305 376705 374921 GB:D30690_3	
45	360653	361380	364537	365584	369715	369715	369715	370952		371996	37492	MG307 381507 377977
	361384	362801	365574		370962	370962	370962	371962	MG301 371962	372946	376705	381507
50	MG293	MG294	MG297	MG298	MG300	MG300	MG300	MG301	MG301	MG302	MG305	MG307

23.0986 48.169 MG308(1 • 89 of 1230)	GB:U02200(276 - 364 of 364) - MG309(3410 - 3675 of 3675) GB:U02200(1 - 266 of 364)	39.3235 60.6765 MG312(2541 - 2160 of 3417) GB:U02261(1 - 382 of 382)	51.4477 71.4922 MG314(514 - 206 of 1329) GB:U02151(1 - 309 of 309)	41.1458 59.8958 MG317(1329 - 1542 of 1797) GB:U02267(1 - 214 of 214)	41.1458 59.8958 MG317(509 - 169 of 1797) GB:U02224(1 - 341 of 341)	41.1458 59.8958 MG317(73 - 1 of 1797) GB:U01716(1 - 73 of 325)	24.6154 43.0769 MG318(840 - 604 of 840) GB:U01716(91 - 325 of 325)	- MG319(423 - 1 of 534) GB:U01769(1 - 426 of 541)	- MG320(371 - 781 of 858) GB:U01700(1-410 of 410)	30.531 54.4248 MG324(883 - 1062 of 1062) GB:U01717(1 - 181 of 223)	30.531 54.4248 MG324(889 · 1062 of 1062) GB:U01755(2 · 175 of 217)
ATP-dependent RNA helicase (deaD) (Escherichia coli}		cytadherence-accessory protein (hmw1) {Mycoplasma pneumoniae}	hypothetical protein (GP:L38997_4) {Mycoplasma pneumoniae}	cytadherence-accessory protein (hmw3) {Mycoplasma pneumoniae}	cytadherence-accessory protein (hmw3) {Mycoplasma pneumoniae}	cytadherence-accessory protein (hmw3) {Mycoplasma pneumoniae}	fibronectin-binding protein (fnbA) (Staphylococcus aureus)			aminopeptidase P (pepP) {Escherichia coli}	aminopeptidase P (pepP) {Escherichia coli}
MG108 382724 381495 SP:P23304		MG312 391334 387918 GB:U11381_1	MG314 393633 392305 GP:L38997_4	MG317 397423 395627 GB:M82965_1	MG317 397423 395627 GB:M82965_1	395627 GB:M82965_1	MG318 398280 397441 GB:J04151_1			MG324 408792 407731 GB:D00398_1	MG324 408792 407731 GB:D00398_1
381495	382734	387918	392305	395627	395627	395627	397441	398300	398940	407731	407731
382724	MG309 386408 382734	391334	393633	397423	397423	397423	398280		MG320 399797 398940	408792	408792
MG308	MG309	MG312	MG314	MG317	MG317	MG317 397423	MG318	MG319 398833	MG320	MG324	MG324

5	I MG327(782 - 533 of 804) GB:U02232(1 - 250 of 250)	1 MG328(339 - 53 of 2268) GB:U02188(1 - 287 of 287)	1 MG128(817 - 462 of 2268) GB:U02203(1 - 356 of 356)	:9 MG330(537 - 226 of 651) GB:U02241(1 - 312 of 314)	60.5988 MG334(1109 - 781 of 2511) GB:U02202(1 - 330 of 330)	38.5629 60.5988 MG334(2400 - 2511 of 2511) GB:U02249(1-112 of 305)	95 MG335(1 - 95 of 573) GB:U02190(200 - 294 of 294)	26.2295 47.2678 MG336(990 - 719 of 1224) GB:U02256(1-272 of 272)	MG337(414 - 151 of 414) GB:U01709(35 - 297 of 297)	MG338(1 - 251 of 3813) GB:U02269(65 - 315 of 315)	MG338(1304 - 917 of 3813) GB:U02221(1 - 388 of 388)	MG338(3342 - 3067 of 3813) GB:U01809(1 - 276 of 276)
15	26.7281 51.1521	27.5434 48.3871	27.5434 48.3871	40.3756 61.0329	38.5629 60.598	38.5629 60.598	34.5238 61.3095	26.2295 47.26	•			
20	(sn											
25	magnesium-chelatase 30 kDa subunit (bchO) (Rhodobacter capsulatus)				ıbtilis}	ubtilis}	us subtilis}	cterium leprae}				
30	0 kDa subunit (bch	otococcus sp.}	otococcus sp.}) (Bacillus subtilis)	(valS) (Bacillus su	(valS) {Bacillus su	SP:P38424) (Bacill	sin (nifS) {Mycoba				
35	nagnesium-chelatase 3	protein V (fcrV) {Streptococcus sp.}	protein V (fcrV) {Streptococcus sp.}	cytidylate kinase (cmk) (Bacillus subtilis)	valyl-iRNA synthetase (valS) (Bacillus subtilis)	valyl-tRNA synthetase (valS) {Bacillus subtilis}	hypothetical protein (SP:P38424) {Bacillus subtilis}	nitrogen fixation protein (nifS) {Mycobacterium leprae}	,	•		
40	_			J	·	-		١٠				
	SP:P26174	GB:X62467_1	GB:X62467_1	SP:P38493	SP:Q05873	SP:Q05873	SP:P38424	422690 GB:U00013_6				ı
45	109873	410666	410666	414325	416970	416970	419473	422690	423110	423103	423103	423103
	10676 4	412933 4	412933 4	414975 4	419480 4	419480	420045	421467	122697	426915	426915	426915
50	MG327 410676 409873	MG328 4	MG328 4	MG330 4	MG334 4	MG334 4	MG335 4	MG336 4	MG337 422697	MG338 4	MG338 4	MG338 426915 423103

- MG338(3772 - 3813 of 3813) GB:U01709(1 - 42 of 297)	46.5986 69.3878 MG339(372 - 93 of 1020) GB:U01704(1 - 279 of 279)	44.4828 66.0345 MG340(1294 - 999 of 3876) GB:X61534(1 - 295 of 295)	44.4828 66.0345 MG340(1519 - 1289 of 3876) GB:X61528(1 - 231 of 231)	44.4828 66.0345 MG340(3444 - 3083 of 3876) GB:U02169(1 - 361 of 361)	44.4828 66.0345 MG340(3772 - 3876 of 3876) GB:U01766(1 - 105 of 467)	44.4828 66.0345 MG340(426 - 66 of 3876) GB:U01797(1-361 of 361)	46.5338 67.5043 MG341(1 - 107 of 4170) GB:U02230(217 - 323 of 323)	46.5338 67.5043 MG341(1932 - 1595 of 4170) GB:U01737(1 - 338 of 338)	46.5338 67.5043 MG341(2833 - 3201 of 4170) GB:U01735(1 - 369 of 369)	• MG342(381 - 504 of 504) GB:U02230(1 - 124 of 323)	MG342(386 - 65 of 504) GB:U02231(1 - 322 of 322)
•	recombination protein (recA) (Staphylococcus aureus)	DNA-directed RNA polymerase beta' chain (rpoC) {Escherichia coli}	DNA-directed RNA polymerase beta' chain (rpoC) {Escherichia coli}	DNA-directed RNA polymerase beta' chain (rpoC) {Escherichia coli}	DNA-directed RNA polymerase beta' chain (rpoC) {Escherichia coli}	DNA-directed RNA polymerase beta' chain (rpoC) {Escherichia coli}	RNA polymerase beta subunit (rpoB) (Bacillus subtilis)	RNA polymerase beta subunit (rpoB) (Bacillus subtilis)	RNA polymerase beta subunit (rpoB) {Bacillus subtilis}		
•	MG339 428115 427096 GB:L25893_1	MG340 434458 430583 SP:P00577	SP.P00577	MG340 434458 430583 SP:P00577	SP:P00577	MG340 434458 430583 SP:P00577	MG341 438640 434471 GB:L24376_3	MG341 438640 434471 GB:L24376_3	MG341 438640 434471 GB:L24376_3	•	•
423103	427096	430583	430583	430583	430583	430583	434471	434471	434471	438733	438733
MG338 426915 423103	428115	434458	MG340 434458 430583	434458	MG340 434458 430583	434458	438640	438640	438640	MG342 439236 438733	MG342 439236 438733
MG338	MG339	MG340	MG340	MG340	MG340	MG340	MG341	MG341	MG341	MG342	MG342

0

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5	MG343(108 - 452 of 1038) GB:U01811(1 - 345 of 345)	MG344(575 - 767 of 819) GB:U02222(1 - 193 of 193)	MG345(1115 - 782 of 2685) GB:U02196(1-334 of 334)	MG345(1811 - 2134 of 2685) GB:U02254(1 - 324 of 324)	MG348(166 - 459 of 966) GB:U01781(1 - 292 of 292)	33.3333 56.7901 MG352(366 - 498 of 498) GB:U02237(1-133 of 310)	MG353(327 - 153 of 327) GB:U02237(136 - 309 of 310)	42.6735 65.5527 MG357(342 - 131 of 1179) GB:X61531(1-211 of 211)	MG358(350 - 87 of 780) GB:U02233(1 - 265 of 265)	61.4907 MG361(274 - 486 of 486) GB:U02206(1 - 213 of 345)	MG362(1 - 107 of 366) GB:U02206(239 - 345 of 345)	MG365(292 - 1 of 933) GB:U02238(1 - 292 of 349)
10	. MG3 GB:L	26.6667 47.5 MG3 GB:L	\$6.2708	56.2708	. MG3	3 56.7901 MG3 GB:1	· MG	5 65.5527 MG GB:	26.2411 42.5532 MG GB:	61.4907	70 MG GB:	50.8143
15	•	26.666	33.2963	33.2963	•	33.333	•	42.67	26.24	29.8137	47.5	24.43
20									_		subtilis}	ii)
25		coides}	erichia coli}	erichia coli}		Bacillus subtilis}		ŝ	,) (Escherichia coli	notoga maritima}	pL7/L12) (Bacillus	nt) (Escherichia co
30		lipasc-esterase (lip1) {Mycoplasma mycoides}	isoleucyl-tRNA synthetase (ileS) {Escherichia coli}	isoleucyl-tRNA synthetase (ileS) {Escherichia coli}		hypothetical protein (GB:U11883_2) (Bacillus subtilis)		acetate kinase (ackA) (Bacillus subtilis)	Holliday junction DNA helicase (ruvA) {Escherichia col!}	ribosomal protein L10 (rpL10) (Thermotoga maritima)	ribosomal protein L7/L12 ('A' type) (rpL7/L12) {Bacillus subtilis}	methiony -tRNA formy transferase (fmt) {Escherichia coli}
35		lipasc-esterase (lipl	isoleucyl-tRNA syr	isoleucyl-tRNA syr		hypothetical protei		acetate kinase (ack	Holliday junction	ribosomal protein	ribosomal protein	methionyl-tRNA (
40		440362 GP:U17036_2	SP:P00956	SP:P00956	•	GB:U11883_2		GB:L17320_2	GB:M21298_1	SP:P29394	SP:P02394	MG365 461682 462614 GB:X63666_2
45	439318	440362	441194	441194	445200	450719	450722	454769	457369	460100	460126 460491	462614
	440355	441180	443878	443878	446165	450222	MG353 451048 450722	455947	456590	459615	460126	461682
50	MG343	MG344	MG345	MG345	MG348	MG352	MG353	MG357	MG358	MG361	MG362	MG365

MG368	466410	465427	MG368 466410 463427 GB:M96793_1	fatty acid/phospholipid synthesis protein (plsX) {Escherichia coli}	28.972 52.3364	52.3364 MG368(227 - 1 of 984) GB:U01791(1 - 227 of 326)
MG369	MG369 468083 466413	466413	•			MG369(1146 - 1446 of 1671) GB:U01763(1 - 300 of 300)
MG370	MG370 469123 468155	468155	SP:P23851	hypothetical protein (SP:P23851) {Escherichia coli}	26.9531 48.8281	MG370(240 - 599 of 969) GB:U02220(1 - 360 of 360)
MG371	470084	469113	MG371 470084 469113 GB:D26185_10	hypothetical protein (GB:D26185_10) {Bacillus subtilis}	25.8065 47.0046	25.8065 47.0046 MG371(349 - 689 of 972) GB:U02263(1 - 341 of 341)
MG374	MG374 472891 472070	472070				MG374(1 - 178 of 822) GB:U02250(159 - 337 of 337)
MG375	474578	472887	474578 472887 GB:M36594_1	threonyl-tRNA synthetase (thrSv) {Bacillus subtilis}	38.7097 60.7527	38.7097 60.7527 MG375(1048 - 1389 of 1692) GB:U02130(1 - 342 of 342)
MG375	MG375 474578 472887	472887	GB:M36594_1	threonyl-tRNA synthetase (thrSv) (Bacillus subtilis)	38.7097 60.7527	38.7097 60.7527 MG375(1530 - 1692 of 1692) GB:U02250(1 - 163 of 337)
MG378		477139 475529	SP:P35868	arginyl-tRNA synthetase (argS) {Corynebacterium glutamicum}	33.6406 56.9124	33.6406 56.9124 MG378(1364 - 1047 of 1611) GB:U01740(1-319 of 319)
MG378	477139	475529	SP:P35868	arginyl-tRNA synthetase (argS) {Corynebacterium glutamicum}	33.6406 56.9124	33.6406 56.9124 MG378(765 - 456 of 1611) GB:U02168(1 - 309 of 309)
MG379	477168	479003	GB:L10328_106	glucose inhibited division protein (gidA) {Escherichia coli}	40.7346 61.9366	40.7346 61.9366 MG379(900 - 1184 of 1836) GB:U01812(1 - 285 of 285)
MG385	484699	483992		•	•	MG385(234 - 6 of 708) GB:U02112(1 - 229 of 229)
MG385	MG385 484699	483992			•	MG385(523 - 708 of 708) GB:U02239(1 - 186 of 320)

5	MG385(528 - 259 of 708) GB:U02246(1 - 270 of 270)	MG386(1294 - 1628 of 4848) GB:U02175(1-335 of 335)	MG386(2274 - 1991 of 4848) GB:X61519(1 - 283 of 284)	MG386(3247 - 3420 of 4848) GB:U02126(1 - 174 of 174)	MG386(3842 - 4196 of 4848) GB:U02192(1 - 355 of 355)	MG386(767 - 1281 of 4848) GB:U02245(2 - 515 of 515)	MG388(285 - 1 of 303) GB:U02265(1 - 285 of 339)	MG389(320 - 129 of 381) GB:U01813(1 - 192 of 192)	MG390(1395 - 1744 of 1980) GB:U02218(1 - 350 of 350)	MG390(1400 - 1174 of 1980) GB:U02248(1 - 227 of 227)	MG391(1 - 217 of 1341) GB:U02268(256 - 472 of 472)	41.2921 60.3933 MG391(412 · 735 of 1341) GB:U01801(1-324 of 324)
15	GI	31.1755 49.4037 MG	31.1755 49.4037 Mi	31.1755 49.4037 M	31.1755 49.4037 M GI	31.1755 49.4037 M	30.9278 56.701 M	,	22.3421 46.5331 M	22.3421 46.5331 M	41.2921 60.3933 N G	41.2921 60.3933 N G
20		iac)	iae}	iac)	iac}	iac)			us lactis}	cus lactis}		
25		cytadherence-accessory protein (hmw1) (Mycoplasma pneumoniae)	cytadherence-accessory protein (hmw1) {Mycoplasma pneumoniae}	hypothetical protein (GB:U00016_19) {Mycobacterium leprae}		lactococcin transport ATP-binding protein (IcnDR3) {Lactococcus lactis}	lactococcin transport ATP-binding protein (IcnDR3) (Lactococcus lactis)	{u	{u			
30		sory protein (hmw1) {	sory protein (hmw1) {	sory protein (hmw1) {	sory protein (hmw1) (sory protein (hmw1) {	n (GB:U00016_19) {N		งศ ATP-binding protei	มส ATP-binding prote	aminopeptidase (Mycoplasma salivarium)	aminopeptidase {Mycoplasma salivarium}
35		cytadherence-access	cytadherence-acces:	cytadherence-acces	cytadherence-acces	cytadherence-acces	hypothetical protei	,	lactococcin transpo	lactococcin transpo	aminopeptidase {	aminopeptidase {
40		1 18	81_1	81_1	1_18	81_1	916_19		86	80	120_1	450_1
		GB:U11381_1	GB:U11381_1	GB:U11381_1	GB:U11381_1	GB:U11381_1	GB:U00016_19		SP:P37608	SP.P37608	GB:D17	GB:D17
45	483992		484705	484705	484705	484705	490702	491150	491537	491537	493627	493627
	484699 4	489552 484705	489552 4	189552 4	489552 4	489552 4	491004	491530	493516	493516	MG391 494967 493627 GB:D17450_1	MG391 494967 493627 GB:D17450_1
50	MG385 4	MG386 4	MG386 4	MG386 489552	MG386 4	, 98EDM	MG388 ,	MG389	MG390	MG390	MG391	MG391

41.2921 60.3933 MG391(412 · 735 of 1341) GB:U01802(1 · 324 of 324)	51.5209 71.4829 MG392(1394 - 1629 of 1629) GB:U02268(1 - 236 of 472)	51.5209 71.4829 MG392(181 - 1 of 1629) GB:U02252(1-181 of 296)	39.5604 54.9451 MG393(330 - 231 of 330) GB:U02252(197 - 296 of 296)	55.303 70.7071 MG394(328 - 683 of 1218) GB:U02131(1 - 356 of 356)	. MG395(457 - 116 of 1572) GB:U02260(1 - 342 of 342)	- MG395(763 - 979 of 1572) GB:X61530(1-217 of 217)	80.9524 89.418 MG399(447 - 852 of 1146) GB:U01752(1-406 of 406)	37.9433 62.0567 MG400(160 - 711 of 837) GB:U01703(1 - 552 of 552)	63.3911 79.5761 MG401(973 - 1554 of 1554) GB:U01727(1 - 583 of 598)	36.4261 63.9175 MG405(75 - 1 of 876) GB:U01728(1-75 of 299)	40 57.1429 MG406(339 - 84 of 339) GB:U01728(44 - 299 of 299)
aminopeptidase (Mycoplasma salivarium)	heat shock protein (groEL) (Bacillus stearothermophilus)	heat shock protein (groEL) {Bacillus stearothermophilus}	heat shock protein 60-like protein (PggroES) {Porphyromonas gingivalis}	scrinc hydroxymethyltransferase (gJyA) {Salmonella typhimurium}	•	•	ATP synthase beta chain (atpD) (Mycoplasma gallisepticum)	ATP synthase gamma chain (atpG) (Mycoplasma gallisepticum)	ATP synthase alpha chain (atpA) {Mycoplasma gallisepticum}	adenosinetriphosphatase (atpB) (Mycoplasma gallisepticum)	transport system permease protein P69 (P69) (Mycoplasma hyorhinis)
MG391 494967 493627 GB:D17450_1	MG392 496615 494987 GB:L10132_2	MG392 496615 494987 GB:L10132_2	MG393 496960 496631 GB:D17398_1	SP:P06192		•	SP:P33253	SP:P33257	SP:P33252	GB:X64256_2	MG406 509319 508981 SP:P15362
493627	494987	494987	496631	497089	498319	498319	502831	504263	505102	508137	508981
494967	496615	496615	496960	MG394 498306 497089	MG395 499890 498319	499890	503976	505099	MG401 506655	509012	509319
MG391	MG392	MG392	MG393	MG394	MG395	MG395 499890 498319	MG399	MG400 505099	MG401	MG405 509012	MG406

5	MG410(301 - 941 of 987) GB:U01707(1 - 640 of 640)	MG411(406 - 632 of 1962) GB:U01746(1 - 227 of 229)	MG412(252 - 1 of 1131) GB:U01702(1 - 252 of 313)	MG412(675 - 563 of 1131) GB:U02101(1 - 113 of 113)	MG413(1179 - 701 of 2142) GB:U01699(1 - 480 of 480)	MG413(1535 - 1230 of 2142) GB:U01804(1 - 305 of 305)	MG414(438 - 154 of 917) GB:U01695(1 - 285 of 285)	MG416(1 - 39 of 1044) GB:U01744(580 - 618 of 620)	MG416(7 - 351 of 1044) GB:U02102(1 - 345 of 345)	MG418(321 - 438 of 438) GB:U01744(1-118 of 620)	47.7541 68.5579 MG421(1693 - 1393 of 2544) GB:X61514(1-301 of 301)	MG422(2274 - 2101 of 2505) GB:U02117(1 - 174 of 174)
	70.3252	\$6.2753			54.1667	54.1667			,	41.3043 70.2899	68.5579	•
15	\$0.813	30.7692	•		25	25		•	•	41.3042	47.754	•
20		ium tuberculosis}			~							
25	scherichla coll}	periplasmic phosphate permease homolog (AG88) {Mycobacterium tuberculosis}			hypothetical protein (GB:L22432_4) {Mycoplasma capricolum}	hypothetical protein (GB:L22432_4) {Mycoplasma capricolum}				:hi a coli}	cherichia coli}	
30	protein B (pstB) (E	e permease homolog			(GB:L22432_4) (M	(GB:L22432_4) (M				ribosomal protein L13 (rpL13) {Escherichia coli}	excinuclease ABC subunit A (uvrA) {Escherichia coli}	
35	peripheral membrane protein B (pstB) (Escherichia coll)	periplasmic phosphat			hypothetical protein	hypothetical protein	•		•	ribosomal protein L	excinuclease ABC s	
40	\$12056 GB:L10328_89	GB:X75297_1		ı	GB:L22432_4	516248 GB:L22432_4		,	ı	SP:P02410	SP:P07671	
45		\$13030	514994	514994	516248		\$16248	520371	MG416 521414 520371	521877	524153	MG422 529493 526989
	513042	514991	516124	516124	518389	518389	MG414 519355	MG416 521414	521414	522314	MG421 526696	529493
50	MG410	MG411	MG412	MG412	MG413	MG413	MG414	MG416	MG416	MG418	MG421	MG422

MG422(2439 - 2505 of 2505) GB:U02172(1 - 67 of 318)	MG422(35 - 1 of 2505) GB:U02228(1 - 35 of 304)	MG423(1434 - 1197 of 1683) GB:X61510(1 - 238 of 238)	MG423(161 - 413 of 1683) GB:X61524(1-252 of 255)	MG423(1683 - 1455 of 1683) GB:U02228(76 - 304 of 304)	32.4121 58.0402 MG425(989 - 769 of 1347) GB:U01805(1 - 220 of 220)	39.7541 61.8852 MG431(463 - 732 of 732) GB:U02109(1 - 270 of 277)	38.0165 55.3719 MG437(679 - 378 of 915) GB:U02189(2-303 of 303)	MG441(20 - 318 of 408) GB:U02128(1-299 of 299)	55.0725 MG447(319 - 645 of 1641) GB:U01788(1 - 327 of 327)	MG451(927 - 586 of 1182) GB:U02255(1 - 342 of 342)	33 MG453(491 - 181 of 876) GB:U02258(1-311 of 311)
					28.04	1 61.8	5 55.37	•		8	48.0287 65.233
					32.412	39.754	38.016		34.058	8	48.028
•	•	•	•	•	ATP-dependent RNA helicase (deaD) {Escherichia coli}	triosephosphate isomerase (tim) {Thermotoga maritima}	1 CDP-diglyceride synthetase (cdsA) {Escherichia coli}	•	hypothetical protein (GB:L08897_t) {Mycoplasma gallisepticum}	elongation factor TU (tuf) {Mycoplasma genitalium}	UDP-glucose pyrophosphorylase (gtaB) {Bacillus subtilis}
	•			,	SP:P23304	537559 GB:L27492	MG437 542067 542981 GB:M11330_1	,	MG447 552444 550804 GB:L08897_1	MG451 555612 554431 SP.P13927	MG453 556435 557310 GB:L12272_1
526989	526989	529534	529534	529534	533014	537559	542981	546300	550804	554431	557310
529493	529493	MG423 531216 529534	MG423 531216 529534	MG423 531216 529534	\$31668	538290	542067	MG441 546707 546300	552444	555612	556435
MG422 529493	MG422 529493 526989	MG423	MG423	MG423	MG425	MG431 538290	MG437	MG441	MG447	MG451	MG453

5

5	61.7128 MG455(604 · 362 of 1221) GB:U02247(5 · 247 of 247)	MG456(256 - 568 of 1002) GB:U01790(1-312 of 312)	MG458(295 - 24 of 525) GB:U02193(1 - 272 of 272)	MG459(330 - 1 of 507) GB:U01725(1 - 330 of 638)	MG460(1 - 136 of 936) GB:U01725(503 - 638 of 638)	MG462(1452 - 1081 of 1452) GB:U02122(9 - 379 of 379)	MG463(777 - 409 of 777) GB:U01719(36 - 405 of 405)	MG467(40 - 352 of 933) GB:U01741(1-313 of 313)	MG469(845 - 547 of 1311) GB:U02259(1 - 299 of 299)	30.9469 57.2748 MG469(855 - 1206 of 1311) GB:U02145(1 - 352 of 352)
10		. MG456()	38.3721 66.8605 MG458(295 GB:U02193(1	28.3582 49.2537 MG459(330 GB:U01725(50.3226 67.7419 MG460(1 - 136 of GB:U01725(503 - 638 of 6)	65.272	53.8813	63.1313	30.9469 <i>\$7.27</i> 48 MG469 GB:U03	169 57.2748 MG469 GB:U0
15	38.539				50.32	42.887	35.6164	39.899	30.94	30.94
25	ophilus)		it) {Lactococcus lactis	Enterococcus faccalis)	:umoniae)	crmophilus}	ubtilis}	~	piroplasma citri}	spiroplasma citri}
30	(Bacillus stearotherm		oribosyltransferase (hp	A) (Plasmid pCF10) ((Mycoplasma hyopne	ILX) (Bacillus stearoth	nce (ksgA) (Bacillus s	(devA) {Anabacna sp	iator protein (dnaA) {5	iator protein (dnaA) {
35	tyrosyl tRNA synthetase (tyrS) (Bacillus stearothermophilus)		hypoxanthine-guanine phosphoribosyltransferase (hpt) {Lactococcus lactis}	surface exclusion protein (prgA) (Plasmid pCF10) {Enterococcus faccalis}	L-lactate dehydrogenase (ldh) (Mycoplasma hyopneumoniae)	glutamyl-tRNA synthetase (gltX) {Bacillus stearothermophilus}	high level kasgamycin resistance (ksgA) (Bacillus subtilis)	heterocyst maturation protein (devA) {Anabaena sp.}	chromosomal replication initiator protein (dnaA) {Spiroplasma citri}	chromosomal replication initiator protein (dnaA) (Spiroplasma citri)
40	MG455 557724 558944 GB:M77668_1		563307 562783 SP:Q02522	563312 GB:M64978_2	SP.P33572	GB:M55072_1	MG463 568404 567628 GB:D26185_105	GB:X75422_1	SP:P34028	MG469 578578 577268 SP:P34028
45	558944	558940	562783	563312	564926	566187	567628	570056	577268	577268
	157724 :	559941	563307	563818	563991	\$67638	568404	MG467 570988 570056	578578 577268	578578
50	MG455	MG456 559941 558940	MG458	MG459	MG460 563991 564926	MG462	MG463	MG467	MG469	MG469

Table 1(d)

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	נט	Œ	Old_id(s)		
	мо	3001	MORF-20072		
	MC	3002	MORF-19817		
10	MC	3003	MORF-19818	MORF-20073	
	мо	3004	MORF-19819	MORF-20074	
	мо	3005	MORF-20075		
15	MC	3006	MORF-20076		
	MC	3007	MORF-19820		
	MC	3008	MORF-20077		
	МС	3009	MORF-20078		
20	MC	3010	MORF-20079		
	МС	3011	MORF-19821	MORF-19822	
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	MG105	133569	134168	600
	MG117	143310	143951	642
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	MG185	211445	213547	2103
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20	MG202	239826	240191	366
	MG207	247523	247906	384
	MG211	250997	251437	441
	MG223	268011	269243	1233
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	MG241	286884	288743	1860
	MG243	290976	291323	348
	MG246	293936	294778	843
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	MG279	341181	340528	654
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	MG436	542092	541739	354
	MG439	545378	544563	816
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The Nucleotide Sequence of the Mycoplasma genitalium Genome

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	2001 AAAAATATGATTCAATGCTGAAAGTTAATGATTTTCAAAATCGCATCAAA
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	2101 ACTTCGTAAGACCTGAGAATTTGATTTTTTTCATCTGATGAAGATTTCT
	2151 TTTATTCTCCATTTACAAAAACAAATATGCTTCCTTTTTAGATAAAGAT
35	2201 GTTTCTTTAGCTTTTTTCAGCTTTACAGCAAGGGCAAAATAGATCATCA
	2251 ATTGGAAAATCTTTATTGAAAAGAAGATGTAAAAGAAGCTTGTCAAC
	2301 AGAATAAAAATTTTATTGAAGTTATAAAAGAGCAATATAACTATTTTGGT
40	2351 TGAATTGAAGCTAAGCGTTATTTCAATATTAATGTTGAACTTGAGCTCAC
40	2401 ACAGAGAGAGATAAGAGATAGAGATGTTGTTAACCTACCT
	2451 AAGTTATTAATAATGATTTTCCAAATCAACTCTGATATGAAATTTATAAA
	2501 AACTATTCATTTCGCTTATCTTGAGATATAAAAAATGGTGAAATTGCTGA
4 5	2551 ATTTTCAATAAAGGTAATAGAGCTTTAGGATGAAAAGGTGACTTAATTG
	2601 TCAGAATGAAAGTAGTTAATAAAGTAAACAAAAGACTGCGTATTTTTCA
	2651 AGCTTTTTTGAGAACGATAAATCTAAATTATGGTTCCTTGTTCCAAACGA
50	2701 TAAACAAAGTAATCCTAATAAGGGCGTTTTTAACTATAAAACTCAGCACT
5v	2751 TTATTGATTAAAAAACCTTTCATTTTTAATGTGTTATAATTATTTGTTAT
	2801 GCCATAAATTTAGTTTGTGGCAAAAGCTTCTGTACTGTTTATTTA
	2851 AGAAAATAACAAAGCAAATATCTATGACTCTAGTAGCATTAAGGTCCTTG

290	01	${\tt AAGGACTTGAGGCTGTTAGAAAACGCCCTGGAATGTACATTGGTTCTACT}$
29	51	${\tt GGCGAAGAAGGTTTGCATCACATGATCTGAGAGATAGTAGACAACTCAAT}$
300	01	${\tt TGATGAAGCAATGGGAGGTTTTGCCAGTTTTGTTAAGCTTACCCTTGAAG}$
309	51	${\tt ATAATTTGTTACCCGTGTAGAGGGATGATGGAAGAGGGATACCTGTTGAT}$
310	01	${\tt ATCCATCCTAAGACTAATCGTTCTACAGTTGAAACAGTTTTTACAGTTCT}$
10	51	${\tt ACACGCTGGCGGTAAATTTGATAACGATAGCTATAAAGTGTCAGGTGGTT}$
	01	${\tt TACACGGTGTTGGTGCATCAGTTGTTAATGCGCTTAGTTCTTTTTAAA}$
32	51	${\tt GTTTGAGTTTTCGTCAAAATAAAAAGTATTTTCTCAGCTTTAGCGATGG}$
330	01	${\tt AGGAAAGGTAATTGGAGATTTGGTCCAAGAAGGTAACTCTGAAAAAGAGC}$
15 33	51	${\tt ATGGAACAATTGTTGAGTTTGTTCCTGATTTCTCTGTAATGGAAAAGAGT}$
340	01	${\tt GATTACAAACAAACTGTAATTGTAAGCAGACTCCAGCAATTAGCTTTTT}$
345	51	${\tt AAACAAGGGAATAAGAATTGACTTTGTTGATAATCGTAAACAAAACCCAC}$
	01	${\tt AGTCTTTTCTTGAAAATATGATGGGGGATTGGTTGAATATATCCACCAC}$
35!	51	$\tt CTAAACAACGAAAAAGAACCACTTTTTAATGAAGTTATTGCTGATGAAAA$
360	01	${\tt AACTGAAACTGTAAAAGCTGTTAATCGTGATGAAAACTACACAGTAAAGG}$
365	51	${\tt TTGAAGTTGCTTTTCAATATAACAAAACATACAACCAATCAAT$
25 370	01	${\tt TTTTGTAACAACATTAATACTACAGAAGGTGGAACCCATGTGGAAGGTTT}$
379	51	${\tt TCGTAATGCACTTGTTAAGATCATTAATCGCTTTGCTGTTGAAAATAAAT$
380	01	${\tt TCCTAAAAGATAGTGATGAAAAGATTAACCGTGATGATGTTTGTGAAGGA}$
385	51	${\tt TTAACTGCTATTATTTCCATTAAACACCCAAAACCCACAATATGAAGGACA}$
30	01	${\tt AACTAAAAAGAAGTTAGGTAATACTGAGGTAAGACCTTTAGTTAATAGTG}$
399	51	${\tt TTGTTAGTGAAATCTTTGAACGCTTCATGTTAGAAAACCCACAAGAAGCA}$
400	1	${\tt AACGCTATCATCAGAAAAACACTTTTAGCTCAAGAAGCGAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAA$
35	51	${\tt TCAAGAGGCTAGGGAGTTAACTCGTCGTAAATCACCTTTTGATAGTGGTT}$
410	01	${\tt CATTACCAGGTAAATTAGCTGATTGTACAACCAGAGATCCTTCGATTAGT}$
415	51	${\tt GAACTTACATTGTTGAGGGTGATAGTGCTGGTGGCACTGCTAAAACAGG}$
420)1	${\tt AAGAGATCGTTATTTTCAAGCTATCTTACCCTTAAGAGGAAAGATTTTAA}$
40 425	51	${\tt ACGTTGAAAAATCTAACTTTGAACAAATCTTTAATAATGCAGAAATTTCT}$
430	1	${\tt GCATTAGTGATGGCAATAGGCTGTGGGATTAAACCTGATTTTGAACTTGA}$
435	51	${\tt AAAACTTAGATATAGCAAGATTGTGATCATGACAGATGCTGATGTTGATG}$
44()1	${\tt GTGCACACATAAGAACACTTCTCTTAACTTTCTTTTTTCGCTTTATGTAT}$
	51	${\tt CCTTTGGTTGAACAAGGCAATATTTTTATTGCTCAACCCCCACTTTATAA}$
450	1	${\tt AGTGTCATATTCCCATAAGGATTTATACATGCACACTGATGTTCAACTTG}$
455	51	${\tt AACAGTGAAAAAGTCAAAACCCTAACGTAAAGTTTGGGTTACAAAGATAT}$
50 460)1	${\tt AAAGGACTTGGAGAAATGGATGCATTGCAGCTGTGAGAAACAACAATGGA}$
465	51	TCCTAAGGTTAGAACATTGTTAAAAGTTACTGTTGAAGATGCTTCTATTG

	4701 CTGATAAAGCTTTTTCACTGTTGATGGGTGATGAAGTTCCCCCAAGAA	.GA
5	4751 GAATTTATTGAAAAAAATGCTCGTAGTGTTAAAAAACATTGATATTTAA	TT.
	4801 TGGTTAGTATAAATGGCAAAGCAACAAGATCAAGTAGATAAGATTCGT	GA
	4851 AAACTTAGACAATTCAACTGTCAAAAGTATTTCATTAGCAAATGAACT	TG
	4901 AGCGTTCATTCATGGAATATGCTATGTCAGTTATTGTTGCTCGTGCTT	TA
10	4951 CCTGATGCTAGAGATGGACTTAAACCAGTTCATCGTCGTGTTCTTTAT	:GG
70	5001 TGCTTATATTGGTGGCATGCACCATGATCGTCCTTTTAAAAAGTCTGC	:GA
	5051 GGATTGTTGGTGATGTAATGAGTAAATTCCACCCTCATGGTGATATGG	CA
	5101 ATATATGACACCATGTCAAGAATGGCTCAAGACTTTTCATTAAGATAC	CT:
15	5151 TTTAATTGATGGTCATGGTAATTTTGGTTCTATAGATGGTGATAGACC	TG
	5201 CTGCACAACGTTATACAGAAGCAAGATTATCTAAACTTGCAGCAGAAC	TT
	5251 TTAAAAGATATTGATAAAGATACAGTTGACTTTATTGCTAATTATGAT	rgg
20	5301 TGAGGAAAAAGAACCAACTGTTCTACCAGCAGCTTTCCCTAACTTACT	rtg
20	5351 CAAATGGTTCTAGTGGGATTGCAGTTGGAATGTCAACATCTATTCCTT	rcc
	5401 CATAATCTCTCTGAATTAATTGCGGGTTTAATCATGTTAATTGATAA	rcc
	5451 TCAATGCACTTTTCAAGAATTATTAACTGTAATTAAAGGACCTGATT	
25	5501 CAACAGGAGCTAACATTATCTACACAAAAGGAATTGAAAGCTACTTT	JAA
	5551 ACAGGTAAAGGCAATGTAGTAATTCGTTCTAAAGTTGAGATAGAACA	
	5601 GCAAACAAGAAGTGCATTAGTTGTAACTGAAATTCCTTACATGGTTA	ACA
20	5651 AAACTACCTTAATTGAAAAGATTGTAGAACTTGTTAAAGCTGAAGAG	
30	5701 TCAGGAATTGCTGATATCCGTGATGAATCCTCTCGAGAAGGAATAAG	
	5751 AGTGATTGAAGTAAAACGCGACACTGTACCTGAAGTTTTATTAAATC	
	5801 TTTTTAAATCAACAAGATTACAAGTACGCTTCCCTGTTAATATGCTT	
35	5851 TTAGTTAAAGGAGCTCCTGTACTTCTCAACATGAAACAAGCTTTGGA	
	5901 ATATCTTGATCATCAAATTGATGTTCTTGTTAGAAAAACAAAGTTTG	
	5951 TTAATAAACAACAAGAACGTTATCACATTTTAAGCGGACTTTTAATT	
40	6001 GCTTTAAATATTGATGAGGTTGTTGCAATTATTAAAAAATCAGCAAA	
40	6051 CCAGGAAGCAATTAATACATTAAATACAAAGTTTAAGCTTGATGAAA	
	6101 AAGCTAAAGCAGTTCTTGACATGCGTTTAAGGAGCTTAAGCGTACTT	
	6151 GTTAACAAACTTCAAACTGAACAAAAAGAGTTAAAAGATTCAATTGA	
45	6201 TTGTAAGAAAGTGTTAGCTGATCAAAAATTACAGCTAAAAATAATCA	
	6251 AGGAATTGCAAAAAATCAATGATCAGTTTGGTGATGAAAGAAGAAG	
	6301 ATTCTCTATGATATCTCTGAGGAAATTGATGATGAATCATTGATAAA	
E 0	6351 TGAGAATGTAGTGATAACTATGTCTACAAATGGTTATCTAAAAAAGGA	
50	6401 GAGTTGATGCTTATAATCTTCAACATCGTGGTGGAGTTGGGGTTAAA	
	6451 CTAACTACTTATGTTGATGATAGTATTAGTCAATTATTGGTCTGTTC	CAAC

_	6501	TCACTCTGACTTATTATTTTTACTGATAAGGGTAAGGTTATAGGTTA
	6551	GAGCTCATCAAATTCCCTATGGTTTTAGAACAAATAAAGGTATTCCCGCT
	6601	GTTAACTTAATCAAAATTGAAAAGGATGAAAGAATTTGTTCATTGTTATC
	6651	TGTTAATAACTATGATGATGGTTATTTCTTTTTCTGTACTAAAAATGGAA
	6701	TTGTTAAAAGAACGAGCTTGAATGAATTCATCAACATCTTAAGTAATGGT
10	6751	AAGCGGGCTATATCTTTTGATGATAATGACACTTTGTATTCAGTAATTAA
	6801	AACCCACGGAAATGATGAGATTTTTATTGGTTCTACCAATGGATTTGTTG
	6851	TTCGCTTCCATGAAATCAACTCAGAGTTCTTTCAAGAACAGCAAGAGGT
	6901	GTATTTGGTATCAGTTTAAATAAAGGAGAATTTGTTAATGGACTATCAAC
15	6951	TTCAAGCAACGGTAGCTTACTTTTATCAGTCGGTCAAAATGGAATAGGTA
	7001	AATTAACGAGCATAGATAAATATAGACTCACAAAACGTAATGCTAAGGGA
	7051	GTTAAAACTCTAAGGGTTACTGATAGAACAGGCCCTGTTGTTACAACAAC
20	7101	${\tt CACTGTTTTTGGTAATGAGGATCTTTTAATGATTTCCTCTGCTGGTAAAAAAAA$
	7151	TTGTGCGTACCAGTTTACAAGAACTTTCAGAACAAGGTAAAAACACTTCT
	7201	${\tt GGTGTTAAGTTAATTAGATTAAAAGATAATGAACGTTTAGAAAGAGTAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGTAAACGTTAGAAAGAGAGTAAACGTTAGAAAGAGAGTAAACGTTAGAAAGAGAGTAACGTTAGAAAGAGAGAG$
	7251	TATCTTTAAAGAAGAGTTAGAAGACAAAGAAATGCAACTAGAAGATGTTG
25	7301	GATCCAAACAAATTACGCAATAACTATGATTTCTTTAAAAAGAAACTGTT
	7351	AGAAAGAAATGTAAATGAGCAATTATTAAATCAGTTTATTCAAACTGATA
	7401	AACTAATGCGCAAAAACTTGCAACAACTTGAACTTGCTAACCAAAAACAA
30	7451	AGCTTGTTGGCAAAACAAGTTGCTAAGCAAAAAGATAATAAAAAGCTATT
	7501	AGCTGAATCAAAAGAACTTAAGCAGAAGATTGAAAACTTAAATAATGCTT
	7551	ATAAAGATTCACAAAACATTAGTCAAGATTTACTTCTAAATTTTCCTAAT
	7601	ATTGCTCATGAATCAGTTCCTGTTGGTAAAAATGAATCAGCAAACTTAGA
35	7651	ACTTCTTAAAGAAGGGAGAAAACCAGTTTTTGATTTCAAACCTTTACCAC
	7701	ATCGAGAGTTATGTGAAAAGTTAAATTTAGTTGCTTTTGATAAAGCTACT
	7751	AAGATTAGTGGAACTAGGTTTGTTGCATATACAGATAAAGCAGCTAAACT
4 0	7801	ACTTAGAGCGATAACTAATCTAATGATTGACCTTAATAAAAGCAAGTATC
	7851	AAGAATGAAACCTGCCAGTTGTTATTAATGAATTAAGTTTAAGATCAACC
	7901	GGACAACTACCTAAGTTTAAAGATGATGTTTTTAAACTAGAAAACACCCG
	7951	TTATTATCTTTCTCCAACTTTAGAGGTACAACTTATCAATTTACATGCTA
45	8001	ATGAAATTTTTAATGAAGAAGATTTACCTAAATACTACACTGCAACAGGT
	8051	ATTAACTTTCGTCAAGAAGCGGGTAGTGCTGGTAAACAAAC
	8101	TATTAGATTGCATCAGTTTCAAAAAACTGAGTTAGTTAAGTTTTGTAAAC
50	8151	CTGAAAATGCTATCAATGAATTGGAAGCAATGGTTAGAGATGCTGAACAA
30	8201	ATCTTAAAGGCACTTAAGTTACCTTTTAGAAGGTTATTGTTATGTACTGC
	8251	TGATATGGGCTTTAGTGCTGAAAAAACATATGATCTTGAAGTTTGAATGC

		CAGCTAGCAATGAATATCGTGAAGTTTCTTCTTGTTCATCTTGTGGTGAT
5		TTTCAAGCAAGAAGACTATGATTCGTTACAAAGATATTAACAACGGTAA
		AAACAGTTATGTTGCTACTTTAAATGGAACAGCATTATCTATTGATAGAA
	8451	$\tt TTTTTGCTGCAATTCTAGAAAATTTTCAAACAAAAGATGGCAAAATTCTT$
		ATCCCACAAGCATTAAAAAAATACCTTGATTTTGACACAATCAAGTAATT
1	O.	${\tt TATGAATAAAGGTGTTTTTGTTGTTATTGAAGGAGTTGATGGAGCGGGCA}$
,	8601	AAACTGCTTTAATTGAAGGTTTTTAAAAAACTTTATCCAACTAAGTTTTTG
	8651	AACTATCAACTTACTATACTAGAGAACCTGGTGGTACTTTGTTAGCTGA
	8701	AAAAATTCGTCAACTTCTTTTAAATGAAACAATGGAACCTCTAACTGAAG
7	5 8751	$\tt CTTATTTGTTTGCCGCAGCTAGAACTGAACATATCAGTAAGCTAATTAAA$
	8801	CCAGCAATTGAAAAAGAACAACTAGTTATTTCAGATAGAT
	8851	TAGTTTTGCATACCAAGGATTAAGCAAAAAAATAGGCATTGATACAGTAA
		AACAGATTAATCATCATGCGTTAAGAAATATGATGCCAAACTTTACCTTT
ž	8951	ATTTTGGATTGCAATTTTAAAGAAGCATTACAAAGGATGCAAAAGCGTGG
	9001	TAATGATAATCTTCTTGATGAATTTATTAAAGGAAAGAATGATTTTGATA
	9051	CAGTTCGTTCTTATTTTAAGCTTAGTTGATAAAAAAAACTGTTTCTTG
1	9101	ATTAATGGTGATAATAAACAAGAACACCTAGAGAAATTTATTGAATTGTT
	9151	AACAAGATGCTTACAACAACCCACGCATTACTAATCATTCAAAGAAAAGG
	9201	TAGTTTCTTAAAACCTTTTCTTGATAATTATCTTACTAGTATTGTTTGT
		AAAACAAAAATGGTTGCAAAAAGTGTATAAACTGTTTGGAAATTCTCAAT
	³⁰ 9301	AATAAATACAACAGCTTATATTGATTTGATCAAAATTAATCCTTTCAAAAG
	9351	AGAAAATGCCCTTCAGTTAGCAAGAATTTTTAACCGTGAAAGAACAAGTG
	9401	TAAACAATAAAAATATTTATCTAATTGAAGAAATTGAAAAATTAAGCAGT
	35 9451	AATTCTATAAATAGTTTATTGAGACTAGTTGAAGATAGTCCGATAAATAG
	9501	TTATGGTATTTTTACAACTAAAAATGAAAGTTTAATTCTTTCCACTTTTT
	9553	TAAGTAGAGTACAGAAAGTAGTTTTAAAAAAAGCTAGTAAAGTTCCTTTT
	9601	AAAGTAAGCAAAAATGATCAAGAAATTATTACAAGTTTTTTTACTGTAGA
	9651	TGAACAAATTGAAGCAATTGAAAATGGAAGTTTTAACCGTTTCAAAATTA
	9701	TCTTAGATGCATGTTTAAACAAAAAAACAGGTACAGAACAAATTTATCAT
	975	L GCTTGACAAATTTTTAGAGATTTTTCTAATAGTGAAATTGCTCAGTTAAT
	45 980	TACTCTAATAATTAATAAAACTGAAAATATAGATAAAAAATCAATTTTGT
,	985	TTAATTGTTTAAAAGTTTTGCCATATAATCCTCCAAAATCCACTTTGTTT
	990:	1 GCTAATTTAGTTAGTTGATAGTTATGAAAAGCGAAATTAATATTTTTGCA
50	995:	CTAGCAACTGCACCTTTTAATAGTGCATTACATATTATTAGGTTTTCTG
	1000	1 TCCTGATGTTTATGAGATTTTAAACAAGATAACTAATAAAAAAAA
	1005	1 GAAAAGGGATGCAAATTCAACGCACATGGATAGTTGATGAAAACAATAAC

	10101	${\tt CGAATTGATGATGTGCTATTATTTAAATTTGTCTCTCCAAATTCTTATAC}$
	10151	${\tt AGGAGAAGATTTAATTGAAATTTCTTGTCATGGTAACATGTTGATCGTTA}$
5	10201	${\tt ATGAAATTTGCGCACTTCTTTTAAAAAAAGGAGGTGTTTATGCCAAACCT}$
	10251	GGTGAATTTACCCAAAGGAGTTTTTTAAATGGAAAAATGAGTTTACAACA
	10301	${\tt AGCTAGTGCTGTAAATAAATTGATTTTATCTCCTAACTTATTAGTTAAAG}$
10	10351	ATATAGTCTTAAATAATTTAGCGGGTGAAATGGATCAACAATTAGAACAA
	10401	ATAGCTCAACAAGTTAATCAATTAGTAATGCAAATGGAAGTAAACATTGA
	10451	${\tt TTATCCAGAATATCTTGATGAACAAGTAGAACTATCAACTTTAAATAATA}$
	10501	${\tt AAGTTAAATTGATTATTGAAAAGCTTAAAAGAATTATTGAAAATAGTAAA}$
15	10551	${\tt CAACTCAAAAAACTTCACGATCCTTTTAAAATTGCCATTATAGGCGAAAC}$
	10601	${\tt TAATGTAGGTAAATCTTCTTTACTCAACGCTTTATTAAATCAAGATAAAG}$
	10651	${\tt CGATAGTTTCAAATATTAAAGGTAGTACACGCGATGTTGTTGAAGGGGAT}$
20	10701	${\tt TTCAATTTAATGGTTATTTAATCAAGATCTTAGATACTGCAGGTATCCG}$
	10751	${\tt TAAACATAAAAGTGGGCTTGAAAAAAGCAGGAATTAAAAAAAGCTTTGAAT}$
	10801	$\tt CTATAAAGCAAGCTAATTTGGTTATTTATCTTTTAGATGCAACACATCCA$
	10851	${\tt AAGAAAGATCTTGAATTAATTAGTTTTTTTAAGAAAAATAAAAAGGATTT}$
25	10901	TTTTGTTTTCTATAACAAAAAGATTTAATTACAAATAAGTTTGAAAATA
	10951	${\tt GTATTTCTGCAAAGCAAAAAGATATTAAAGAATTAGTTGATTTATTAACT}$
	11001	AAATATATTAACGAGTTTTATAAAAAAATAGATCAAAAAATCTATCT
30	11051	TGAAAATTGACAGCAAATTTTAATTGAAAAAATTAAAGAACAATTAGAAC
30	11101	${\tt AGTTTTAAAGCAACAAAAAAAATATTTATTTTCGATGTTTTAGTTACC}$
	11151	CATCTAAGAGAAGCTCAACAAGATATTCTTAAACTACTAGGTAAGGATGT
	11201	AGGTTTTGATTTAGTTAATGAAATTTTTAATAATTTTTGTTTAGGAAAAT
35	11251	AATGGAATACTTTGATGCACATTGTCATTTAAATTGTGAACCTTTACTGA
	11301	GTGAAATTGAAAAAGCATCGCTAATTTCAAATTAATTAAATTAAAAGCA
	11351	AATGTTGTAGGTACAGATTTGGATAATTCTAAAATTGCTGTTGAATTAGC
4 0	11401	TAAAAATATCCTGATCTTTTAAAAGCAACCATAGGTATCCATCC
40	11451	ATGTTCATTTAGTTGATTTTAAAAAGACAAAAAAAACAACTTAATGAACTA
	11501	TTAATAAATAACAGAAATTTCATAAGTTGTATTGGTGAATATGGTTTTGA
	11551	TTATCACTACACAGAATTTATTGAATTGCAAAACAAATTCTTTGAGA
4 5	11601	TGCAATTTGAAATAGCTGAAACTAATAAATTGGTTCACATGCTTCATATT
	11651	CGTGATGCTCATGAAAAATTTATGAAATATTAACAAGATTAAAGCCAAC
	11701	TCAACCTGTGATTTTCATTGTTTCAGTCAAGATATAAATATTGCTAAAA
EO.	11751	AGCTACTATCATTAAAAGATTTAAATATTGACATCTTCTTTTCTATCCCA
50	11801	GGGATAGTTACTTTTAAGAATGCTCAAGCATTACATGAAGCTTTAAAGAT
	11851	TATTCCTAGTGAATTACTTTTAAGTGAAACTGACTCACCGTGATTAACCC

	11901 CTTCTCCTTTTCGAGGCAAAGTTAACTGACCTGATTTTTTTT
	11951 GTTAGCACTGTTGCTGAAATAAAAAAAATAGAAATTGCTGAAATGAAGCG
ī	12001 AATTATTGTTAAAAATGCAAAAAAATTATTTTGACATTAAAAGTTAAATA
	12051 AAGCAATTTATTTAACAAATGGATGTTAGAACTGAAAGATTAAACGAATT
	12101 GTTTTTTGTTTATCATAAAAACTTAAAAAATCAATCTAAATCTAAATATA
10	12151 GCAGAGCAGTTAATTACTTAAAAAGGCGTGGATTCAATTTACAAGATTTT
10	12201 TTAAAAGTTGGGGGTGGTGTTGGTTATTTACAAAATAAAGAATGATTAAA
	12251 TTTACCTTTATACAGTTTTGATGGTAATTTAATTGGTTTTCTAAACAGAA
	12301 AAGTTAGTTATAAAAAGGAATTTTTATATACACCTTTTAATAAACCTCCT
15	12351 TCAAAGAGCGAAGCTTTTGTAGGACTCAGAGAATTAGTTATTAAAGACAA
	12401 TAGCATATATCTTGTTGAAGGTGATTTTGACTGGTTAGCTTTTCGCAAAG
	12451 CAGGTATATTAAATTCTCTTCTTCTTTGTGGTTTGACTATTTCAAATCAA
	12501 CAAGTTCAATGATTAAAACAAAAAAAGATTAAAAAGATTTTATCTGTTT
20	12551 TGATAATGATTTAGCTGGAAAGAATGGAGCAAAAAATTTAAAAGAATATC
	12601 TAACTAAGCAAGGATTTATAACAAAAGTTATAGAAATTAAAGCTGCCGCA
	12651 AAAGACTGAAATGATTTGTTTTTATTAAACAACTCAAATTGATCAGCGGT
25	12701 TTTAACTAATCAACTTCTTTTTTAAGAATTTTTTAAATTTACTAATAATT
	12751 GTTCTGATAATTATTTTAGTGATATTTAAATCTGGACAAAGCTGAACTAA
	12801 AGCTCTCGCACCAGCAGCATCTTCAATTTCATTAACAATAACCCTATTAT
	12851 ATCTATTTAAAAAGAAGTCAATAGCATAATAACCTTCCCTTAGGCGTTTA
30	12901 GCTATTTTCTTTATTTTTTTTTTTAGTAAATCACTTTAATTTAAACAAGGA
	12951 AACTTCAGCACCTTGTGAAAAGTTAGCTTTAAATTGATTAGCATTAGAAA
	13001 TTTTTTTAATAACTTTAATTATTTTTCCAAACAAAATATAAGCACGATAT
35	13051 TCAACTGTGCCAATTGATAAAAAAGGTTGAACAATTCATTC
	13101 TTCAATGTTTAAATGTTTGATCTCGTCAGCACTATTAACTAAATGTACAT
	13151 CTTTTCCACCGTGTGAATTACGTTTCTTAACGATGACAGGAAATGATTTG
	13201 ATTGTTTCTTTACTAAGAAGAAGAATTGACAGTTAGAAATCTATTTTG
40	13251 TTTTAATCATTTATATGTTTCGTATTTATCGTTTGCTATAAAAACAACAT
	13301 TAAAAGGATTAACTAAAAAAGTATTTATTTGATTATTGGTTTTTAAAAAA
	13351 TCTACTTTTCTTGAACGATTTAAAATCAATTCAGCTTCATTAATTTTAGC
45	13401 TTCGAAATTAATGTCTTTATTTTCAAGTAATAAGACTTCAGCATTTAGTT
	13451 TTTTCTTTTGTAATTCCTTGATTAGACTTAAAGCAAATGTTTGATTTTTT
	13501 TCAAAATCATCCTTGTTGTCATAAACAACTAATGCTTTTCTGTTTTTTAA
	13551 TTTAATTTTTCCCATTAATCTAAATTGCTTTTAAAAGCTCAATTGCAAGA
50	13601 TTAGTATTTAAATACATTGAGCTTCTTGTTAATTGCACATTAGGATTTAC
	13651 TTCACAAAAGATCAATGATCTGTCTTGATCAAACAAAAAATCAATACCGC

	13/01	AAIAAAAAGIIGCAIIACIIIACIAAIIIIAACIGCIAAAIIIICIIGI
	13751	TCCTTATTCAAAAAAAGCGTTCTGCCTTTGCCCCTTTATTGAGATTAGA
5	13801	ACGAAAATCACTATTATTAGTTGTATGTAAAGCACCTATAACTTTATTGT
	13851	TCACAACAATAACTCTTACCGATTCACCTTTAGAGCAAGTAATGTATTTT
	13901	TGCACAATTGCTTGATTAAAAGACATTAAAGTTTTTCTTAATTTTTT
10	13951	TTCATCTAAACACAAAAAACATAATCACCAAAAGAACCAAAAAACACTTT
	14001	TAACAATAACAGGAAACTCCATACTTTGTTTTATTTGATTAATAAAAACA
	14051	TCGAGCATTACTGGATTTCACTCCCTGTCAAAATTTTGAGGTCCTAAAAG
	14101	${\tt TGTTTAATCTGCTTTATGAATGGATATTGTGCAATGATAGCGTGACTAATGGTGACTAATGGTGATAGCGTGACTAATGGTGATAGCGTGACTAATGGTGATAGCGTGACTAATGGTGATAGTGTGATAGCGTGACTAATGGTGATAGTGATAGCGTGACTAATGGTGATAGCGTGACTAATGGTGATAGCGTGACTAATGGTGATAGCGTGACTAATGGTGATAGTGATAGCGTGACTAATGGTGATAGTGATAGCATAGATGATAGCATAGATGATAGCATAGATGATAGATGATAGATGATAGATGATAGATGATAGATGAT$
15	14151	${\tt GTCCTTTATTATCTGCATTGTTAATTCCAATTGAACTGTTAATTACTTCAATTGAATTACTTCAATTACTTCAATTACTTCAATTGAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACTTCAATTACAATTACTTCAATTACA$
	14201	${\tt AAACCATTGCTTTCTAGTCATCTAGCTAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATAATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATAATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATCCATAAAAGCAAATATTTTTATAAAAGCAAAAAGCAAATATTTTTATAAAAGCAAAAAAGCAAAAAAAA$
	14251	${\tt AAGAATTTGGTTGGATATGAAGGGTAAATTTGCTTTTGCTTTAGTTGTATGTTGTATGTTGTATGTTGTATGTTGTATGTTGT$
20	14301	TAATATCAAAACTAGTAAAGAATTTTAGTTCTATATCTAACTCTTCACTA
	14351	GCATTTTTTAAAAGTTGAGTTTGATTTAATTTAGAGCTAATTGGATTAAA
	14401	${\tt TGCTGGATTGTAAACAACGTTTATTTTTTTCATGCAATATTCAAAGATTTCAAAGATTTCAAAGATTTCAAAGATTTCAAAGATTTCAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAGATTTCAAAAAAAA$
	14451	${\tt TTTATTGCTAAAACTGTAAAAGGGCCAACACCGCCAGGCGTTTTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAG$
25	14501	TCATCATCTAGCTTTTTTTTCAATGCCTTCAGGATTTATATCACCACAAA
	14551	GTTTATTTTGCTTGTTTCTTGAAACACCTATATCAAATAAAT
	14601	${\tt TTTTTAAAGTTTTTAGCTTGAAAAAAATGAGATTTTCCAATAGCAGTAAAAAAAA$
30	14651	AACTATATCAGCACTTTTAATCAATTCAAATGTATTTGGAGTATCTTTAT
	14701	$\tt CGCATGCTTGAACTTTATAACCACTAGTTTTTAAAAATTCATAAATAGGTTTTTAAAAATTCATAAATAGGTTTTTAAAAATTCATAAATAGGTTTTTAAAAAATTCATAAATAGGTTTTTAAAAAATTCATAAATAGGTTTTTAAAAAATTCATAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTAAAAAATTCATAAAATAGGTTTTTTAAAAAATTCATAAAATAGGTTTTTTAAAAAAATTCATAAAAATAGGTTTTTTAAAAAATTCATAAAATAGGTTTTTTAAAAAATTCATAAAATAGGTTTTTTAAAAAAATTCATAAAATAGGTTTTTTAAAAAAATTCATAAAATAGGTTTTTTAAAAAATTCATAAAAAAATTCATAAAATAGGTTTTTTAAAAAAATTCATAAAATAGGTTTTTTAAAAAAATTCATAAAAAATTCATAAAAATAGGTTTTTTAAAAAAAA$
	14751	TTGCCACCAGTTATTCCCAAACCTACCACAACAATTTTTTGATTATTAAA
	14801	${\tt TTCAAGGTTAAATAGTTCTTTTAGTGTTATTATAGCTTCAACTATACAAGGTTAAATACAAGGTTAAATACAAGGTTAAATAGAAGGTTAAAGGTTCAACTATACAAGGTTAAAGGTTCAACTATACAAGGTTAAAGGTTCAACTATACAAGGTTAAAGGTTCAACTATACAAGGTTAAAGGTTCAACTATACAAGGTTCAACTATACAAGGTTCAACTATACAAGGTTCAACTATACAAGGTTCAACTAACAAGGTTCAACTATACAAGGTTCAACTATACAAGGTTCAACTATACAAGGTTCAACTATACAAAGGTTCAAACTATACAAGGTTCAACTATACAAGGTTCAACTAACAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAAGGTTCAAAGGTTCAAACTAAAGGTTCAAACTAAAGGTTCAAAGGTTTCAAAGGTTCAAAGGTTCAAAGGTTCAAAGGTTCAAAGGTTCAAAGGTTCAAAAGGTTCAAAGGTTCAAAGGT$
35	14851	GTTTAATTTCAGCCAAATGATTAGTTGTTAAACCATCAACATCTTTTAAA
	14901	GGATTAATTGCTTCTAGTAGTGAGTTTTTATCTAAGTGTGGATAAACTG
	14951	CAATTGCAAAATGATACCAGTAACATTTACATCATGATTTAAACTAATTA
4 0	15001	TTTTTTCTATTAACTCTGCTTGAGTTATTTGATTAGATAGTTTAATTAA
40	15051	TCACTTTTTGCTCCTACAGTGTTACAAGCAATAAGTTTTTGTTTAATAAA
	15101	ACTGTCTGATGAATCATCATCATTAGCTTGAATAATCACTAACTTACATT
	15151	TTGATCAAAATTCTTGTAAGTTTCTAAGATTGATTGCGCTTTTAGT
45	15201	TTTCCATCAAATGACATCTTATTTTGCCTAATATAAAACAAAACGTCTAA
	15251	$\tt CTTCTTATTTATGCAAAGGTAAGTTAGACGTTGGAATTCTTTAATGGTGGGGGGGG$
	15301	AGATGAAGGGTCTCAAACCCTCAACCTCCTGAGTGCAAATCAGGTGCTCT
50	15351	${\tt ATCAGTTGAGCTACATCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCCATTATTGGTGGAAGTAAATGGACTTGAACCCCATTATTGATGAACCCCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTGATGAACCTCATTATTATTGATGATGAACCTCATTATTGATGAACCTCATTATTATTGATGAACCTCATTATTATTGATGAACCTCATTATTATTATTATTATTATTATTATTATTATTA$
50	15401	ATCGACCTCACCCTTATCAGGGGTGTGCTCTAACCAACTGAGCTATACTT
	15451	CCAAGCATAATCCTAAGGGTATTTAACTAATTATTATAACAATTTTAATT

:	15501	TAACCAAAATACCCCTCGAATTTTAACAGTTTTTATAATCAAAACAGCTA
:	15551	ATTTTATGGGGCTTGTTTTAAAAGAATTTAACAATAAAATAAGAACAGCA
5	15601	TTAATTCTCGCTCCTTTTTTCACTTTCGCTCAGATAGTGATTGAT
:	15651	CATTCCTTCTTTTTAGCAAGTGCTATTTCAGTTGTGTTTTCAATTGATA
:	15701	AATTAAAACAGGATGAGTCAGGCGGAAAGACAATTTCAGTTGATTTTATT
10	15751	${\tt GGTGGGGCTAATATTAATTTTGCTAATGTAAGAGAAGCGCAAATAGTTTT}$
	15801	${\tt AGCAACCACAGTTATTTTACTTGCATTATGTGGACTTTTTTTT$
	15851	${\tt TATCTATTTATTGTGCAAGTTATGTTTCAGCAAACACTTCTTTTCTATTA}$
	15901	${\tt AGAAAAAGATCTTTGCAAAATTAATGCGAATCACAACCCCATCACATGA}$
15	15951	${\tt CCATTATGGTTCTTCTACTTTATTAGTTAGATTAACAAATGATGTTTATT}$
	16001	${\tt TGATGGAGGTAATTGCTTTTGATTTTTTAAGGCTAATTATTCGTGCTCCG}$
	16051	${\tt CTTTTGTTTATAGGTGGATTAGTGTTTGCAGTAACTACAAATCAAGATAT}$
20	16101	${\tt GTCAATATCTTTACTAATTACTTTTCCTTTGATTCTTTTGGTAATTGGTA}$
20	16151	${\tt TTCTAAACCGTAAATCTATTCCTTTATTTAAAGAAAATCAAAAATCAGTT}$
	16201	GATAAGATAAATGAAAGAGTAGAAGAAGATGTTTCAGGTTATAAAGTAAT
		TCAATCTTTAATCTTCATTCCTTTACAAATAACAAATTTAAGATTGCAA
		ATGAAGGATGAAAAAGAATAGTACAAGTTCTTTATTTATAAACTCACTT
		AACATTCCATTTACCTTTTTTTTTTTTAAGCAGTTTAACTATTATTATTGCTCT
		ACTATTAGTTTTCAATTAGATAGTAGTGTTTCAGTTGACCCATTACCGC
30		AGGATGCAGCTATTAGACCTAATATCTTTGCTTTTTTCCAATATAACTTT
30		TACATTGTTTTAGGGTTTATCTTAACCTCTTTAACAATGGTGAACTTTAA
		TCGTTCTAGAGTTGCACTAGGCAGAATTAAAGATATTTTATCTCAGCCTG
		AAATAAAACTATTACAAATAAAGATCAAAAAGAATTATTACCTACC
35		GAGTTTAGAAATATCTCTTTTGGTCTTGGCAATAAGAACAATAACAATTT
		TTTACAAAATCTTAGTTTTAAATTTGAAGCATATAAAACATATGGTATTG
		TTGGGCCTACAGGCTCTGGAAAATCTTTAATTGCTAACATTATCGGTGGT
4 0		TTATATGAGCCTAATGAGGGTGAAATTCTCATTGGTGGGGAGAAAATTCA
40		ATCTATTGACAGTTTATATCTATCAGAAATGATAGGAATTGTTTTCCAAC
		AAAACATCCTTTTTAAAGGAACAATTTCTTCTAATATAAAAATTGGTATT
		GAAACTAGAAGTGATTGAAAGAATCAATCTGATTTACAAAAGAATGAAGC
4 5		GATGAAAACGCAGCTAAAATAGCTTGCGCTGACACCTTTATTGAAAAGT
		TTTCTGATAGTTATGATCACAATGTTGAACAGTTAGGTAAAAACTTATCT
		GGTGGACAAAACAAAGAGTTGCTATTGCAAGAACTTTAATTACAAAACC
50		AAGAATTTTAGTTTTTGATGATAGTATGAGTGCTCTTGATGCTCTAACTG
<i>50</i>		AAAAAAAGTAAGAGAAAATATTGAAAATGATTTAAAGCTAACTACCAAA
	17251	ATCATTATTAGTCAAAACATTAATTCAATTAAACACGCAGATAAAATTTT

	17301	${\tt GGTAATTGATAATGGCAGAATTGTTGGTTTTGATAGTGATCAAAAGCTAA}$
	17351	${\tt TGAAAAATTGTTCACTTTATCAAAAGATGAAAGAATCTCAAAAAGATTTG}$
5	17401	${\tt GGAGGTGATTTTGATGCAGTTAACTAGTGTAAAACCAAGTTCTTGAAAGA}$
	17451	$\verb TTTTAAAGAGATTAATTACTTCAATGGAAGGAAGTTGAAGTTATAAATTA $
	17501	${\tt CTTTATGTTTTTTGTGTATAGTTCTTGGTATTTTATATGGAATTGCTAA}$
10	17551	${\tt CCCTATCTTATTAGCACAAGGTCTTGGTTTTATTTTTCCTATTACTAGTA}$
	17601	${\tt GTAATGGTCGTGCTGTTGACTCAATATATTCATTAATTTACCCAACAAAT}$
	17651	${\tt TTAAATGTATTCATTAGGCTCACAATTGTGAGCGTAACTGTTTTTGTAGC}$
	17701	${\tt TTATGCATTAATCTTTGTATTTAATGTAGCGCAAAACTATGTAGGGATTA}$
15	17751	${\tt AACTTTACCAACAAACATGTGCTACTTTGCGTTGAAAGGCATATTTAAAA}$
	17801	${\tt ATGCAGAGTATGTCAACCAGCTTTTTTGATACGCAAAATAATGGTGATCT}$
	17851	${\tt TATGAGTAGGTTAACTAATGATATGTATAACATTGATAACCTATTCACTC}$
20	17901	${\tt AAGCTGGTGGACAAGCTATTCAAAGTTTGTTTAATATTTTAACAACCTCA}$
	17951	${\tt GTATTAATATTTTATTAAGCCCAGTTATTGCACTTATTTCACTTTCAAT}$
	18001	${\tt TTTAGCTACATTAATTACTTTTTCTTTTGCCTTTCTAAAGAAATCAAAAA}$
	18051	${\tt CTTCATATAGTCAAGTACAAAATAATTTGGGTGATATGTCTGGTTATATT}$
25	18101	${\tt GAAGAGGTTTTAACTAATCATAAGGTTGTTCATGTCTTGAAGTTGCAAGA}$
	18151	${\tt GATAATGATTAAGGATTTTGATCAATACAACAAATCAATGATCAAACCAA}$
	18201	$\tt CTGTAAGAGGGAATACATATTCGATCTTTCTTTTTTTTTT$
30	18251	${\tt ATATCAAATATTACTTATCTGGTTTCTATATCAATTGCTACTGCTTTTAG}$
	18301	${\tt TGTTAATTCTATTCCTTCATTTGGAATTAGTGTTATTAACTATTCATTC$
	18351	${\tt TGTTGTCTTACATTGCTTCTTTAAGGCAAATAACTTTAGCATTAGATCAA}$
	18401	${\tt ATCTTTACCCTTTGAAACTTAGTTCAATTAGGGGTTGTTAGTGCAGAAAG}$
35	18451	${\tt AGTATTTAAGGTATTAGATCTTAATGTAGAGAAAGATACTGCTACTATTG}$
	18501	${\tt ACAAATTACCTGATATTAAAGGTAATATAAGGTTTGAAAATGTAGCATTT}$
	18551	GGTTACAATAAAGATAAACCTACTTTAACAGGAATTAACTTTAGTGTTAA
4 0	18601	ACATGGAGATGTAGTTGCAATAGTAGGTCCTACAGGAGCTGGTAAATCAA
40	18651	$\tt CTATTATTAATCTATTGATGAAATTCTATAAACCTTTTGAAGGAAAGATT$
	18701	TATATGGATAACTTTGAAATTAGTGATGTAACTAAAAAAGCATGAAGAGA
	18751	AAAGATTTCTATAGTATTACAAGATTCATTCTTATTTAGCGGCACAATTA
4 5	18801	${\tt AAGAAAATATTCGTTTAGGCAGACAGGATGCTACTGATGATGAGATTATC}$
	18851	GCTGCATGTAAAACTGCTAATGCTCATGATTTCATCATGCGTTTACCAAA
	18901	${\tt AGGATATGACACTTATATTTCCAATAAAGCAGATTATCTTTCTGTTGGTG}$
5 0	18951	${\tt AAAGGCAATTATTAACAATTGCCAGAGCAGTAATCCGTAATGCTCCAGTT}$
50	19001	${\tt TTGCTCTTAGATGAAGCAACTAGTTCAGTTGATGTCCATTCAGAAAAATT}$
	19051	AATTCAAGAATCAATAGGAAGGTTAATGAAAAATAAAACTTCTTTTATAA

	19101	TTTCTCATCGTCTTTCAATTATTCGTGATGCAACATTAATAATGGTTATT
5	19151	AATGATGGTAAAGTACTTGAAATGGGTAATCATGATCAGCTGATGAAACA
	19201	AAATGGATTTTATGCACGTTTAAAACAATCTTCGGTTCGTTAATAAATTC
	19251	${\tt TAATGACTGTTGCTGAAATTAAAAAACTTGCATTAAATAATCAGGTATTT}$
	19301	${\tt AATGAAGCAAAAGCGCTTTTAGAAAAAGGTAATGTTATTTTCCAAAAAA}$
1	0 19351	${\tt ATTCTTAAAGCGAAAGAAGATCATTATTGAAGTATTAGATGGTAAGGTTT}$
		${\tt TTAAGGTTCAAATTAATTTAAAAACCGCTGCTGCACACTTGGATTGTAGT}$
	19451	TGCTCTAATGATAAGCAAAATTGCGTTCATATAATTGCAGCGCTTTTGAA
	19501	ATATAATGATCTAAAAAATCAAGATAACAAAGAATTTGACCTTAATAAAG
1	5 19551	CCGATAAATTAGAGTGCAAAGAAGTTGAAATTCTAATTGAAAATGTTAGC
	19601	TTAGCAATTGTTAATGGCAGCLGAAAATTAAAGATAGGTTTTGTAATTAA
	19651	TATTGATAAAGTTCAAACTAALACAACTGCTTTACGTTTTTATTGTTGTG
	19701	ATAATAAAGATGTTTATTTTCTACATACTGAAGATGAACACTTTTCAGGA
	19751	TTGCTTTAGATAAATTTAATAGTGTTGAAAGACAAACATTATTAATTTTT
	19801	GATCAGCTAAATAAAACAAAGCAAATGCAATATGAAAATAACAGTTTGCT
	19851	TTTTAATTTAGATCAATTCCTAAGCCTAGTTAAGGAAGTTAAAAAACCTT
2	25 19901	CATTATTCTTATTAAATGAGGATAAAACTGACAATATTCTTTTCTTAAGA
	19951	AGTCAACATAAAATCAATGGATTAAGCCACGTTTGTGGTTTTTTAAATAA
	20001	TAAGGTTTTTGATTTTGTATCCTACAATGAAAAAACTAAGCAAATTGTTT
	200	TACGCTTAGCTTATCTTAATAAGTTCACTGATTTTAAATTTCCATACAAC
	20101	ATTAACATCTATAAACTTGCTTTTGGAGAAACATTATTTTTCCATTTTTT
	20151	AATCCATTTAAAAATGAATGGTTTTAAAAACATCTTTTTTCAAAGTGATG
		TTGTTATTGTTAAGGAAAGTGAATATCTACCTAAGATGTTTTTGACTATT
		GAATTTAATACACAAAAAAACAAGTTTATAACTGATGCTTTTTTTAAATA
	20301	TAAGAATAAAAATAGCAATACTTTAACAACTGTTTACCCCCATCGCTATA
	20353	CTTAGCTCAAAAAACTAATACATCAAACTTCAACCGTTTACTTTTTTATG
	20401	AACAAGCACTACAAAGGTTTTATGAAGAATTATTTCAAATAGATTATTTA
	2045]	L AGAAGATTTGAAAACATTCCCATTAAAGATAAGAATCAAATTGCGCTFFT
		L TAAAACTGTTTTTGATGATTACAAAACCATTGATTTAGCAGAATTGAAAC
		TTACAAGTAATCTCTTAAATTACAAACAGTTACATTTTTCAATAAGTGAT
4.		l ATTAAAGCTTTAAAAATTGAAGATAGACAACTAAAAATTGAATTTAAAGC
	2065	1 TGGCGGGATAGATCTAAAGTTAATTAAAAGTGTTTTAAGTAACTACTATA
5		1 AGGGTAATGCTATTTGTATTGGTGAAGATGGTTGATATGATTTGAACGAT
	50	1 GAAAATGCTAAAGCACTAATTTCATTTTGGAGTCAAATTGACTTAAGAAA
	2080	1 TGCTACTTGTGATGCTAATAACAATTTGCTTCTTGCTAAATACCACTTGT
	2085	1 TTGAAGTTGTAGATACTATTAGTAAATACACTGATGTAACTAATTTATTA

	20901	GATGAAAAACAGCCTTACAATTAAAAATAGCTAGTGAAAATCAATTTCA
	20951	${\tt TCTTTCGTTAGATAATAACCAAATTAATAACTTACGCAAATATCAAAAAG}$
5	21001	${\tt AAGGAGTTAAATGGATAAGGGCATTAGAAGATAATCAGTTTGGTGGAATT}$
	21051	${\tt TTAGCAGATGAAATGGGGTTAGGTAAAACTGCTCAAGTGATCTTTGCAAT}$
	21101	${\tt GCTGGATAGTTATCAATCAACAAAATCACTTTTACCTAGTTTAATTATCG}$
10	21151	${\tt TTCCAGCATCCTTACTCTTAAATTGAAAAAGTGAGTTCCAAAAGTTTGCA}$
	21201	${\tt CCTCATGTGAAAATAGTTACTGCTAATGGCAATTTTAAAGAACGCTCGCA}$
	21251	${\tt GGTATATGAATCATTAAAAAATCAGATTTTGTTAATGAGTTTTAATGTCT}$
	21301	${\tt TAAGAAGTGATATTAAATGAATATCTCAAAAAAAGTTCCATTATGTAGTA}$
15	21351	${\tt ATTGATGAAGCACAAGGAATCAAAAATGAAAATTCTACTGTAACAAAAGC}$
	21401	$\tt CGCTAAAAAAATTAAAGGTAATTTTTGCTTAGCACTTACCGGTACTCCTA$
	21451	${\tt TTGAAAATCGTTTGCTTGATCTTTGATCTTTGATTTTGTTTTACCA}$
20	21501	${\tt AATTTCCTTGGTAATAAAAAACAGTTTTCAGATCAATTTGAAAAAAGAAAA}$
	21551	${\tt AAATGATGAAAGCTTTCAAAAATTAATGAAAAAACGAGTCCTTTTATTT}$
	21601	${\tt TAAGAAGGACTAAAAATAAAGTTTTAAAAGAACTACCTAAAAAAATTATT}$
	21651	${\tt ACTGATATCTATGTTGAACTTAGTGAAGAACATCAAAAACTGTATGATAA}$
25	21701	${\tt ACAAAAACAGATGGTTTGAAGGAGATTAAAGAAAGTGATGCTAAAAATG}$
	21751	${\tt CTTTAAATATCCTTAGTTTAATCTTGAAATTAAGGCATATTTGTAGCTTA}$
	21801	${\tt GTTAAAGACAATGATGTTAATGATTTTGAAGATAATTCCAAAGCTAATGC}$
30	21851	${\tt AGCTTTAAACATTATTTATGAAGCACTTGAAAATAAACGCAAAGTTATTT}$
	21901	${\tt TGTTTACTCAATTTTTAGATGTAATTGATTGTTTTAAGCAAACTTTAAAA}$
	21951	${\tt AATCAAAAGATTGATCACCTGGTATTTGATGGTAGAAAAACTGTGAAGAA}$
	22001	TAGAAACACTATTATCCAGAAGTTCAATAGTGCTAAAGAACCTTGTGTGA
35	22051	${\tt TGCTAGCTTCTTTAAAAGCTGGTGGAGTTGGTATTAACTTAACTGCTGCT}$
	22101	${\tt GAAGTTGTTATTCATTTTGATGTGTGATGAAACAGTGCTGTTGAAAATCA}$
	22151	${\tt AGCAACTGATAGAGCACATCGTATTGGTCAAAGTAAAACTGTACAAGTTT}$
4 0	22201	ATAGAATTATTGCTAAAAATACTATTGAAGAGCGAGTTTGTCAAGTTCAG
	22251	${\tt AATCAGAAACAAGAACTTGTTAAAAAAACCTTGGTTGAGGATGTAAATTT}$
	22301	CTTTAAATCTCTTTCACATGAAGAACTCTTAAAGCTTTTTGAATAAAGCA
	22351	${\tt AGAATTATAACACTCTAAGGATGCAAGTGATAAATGGCTGCTGGTA}$
45	22401	${\tt AAAGGGATTATTATGAAGTTCTAGGGATATCTAAAAACGCTAGTTCTCAA}$
	22451	GACATAAAAAGGCTTTTAGAAAGCTTGCAATGCAATATCACCCCGATCG
	22501	TCATAAAGCAGAAAATGAAACTACTCAAAAACAAAATGAGGAAAAGTTTA
50	22551	${\tt AAGAGGTTAATGAAGCATATGAAGTTCTAAGTGATGAAGAAAAACGTAAG}$
	22601	$\tt CTTTATGACCAGTTTGGTCATGAAGGGTTAAATGCTTCTGGTTTTCATGA$
	22651	${\tt AGCAGGGTTTAATCCTTTTGACATCTTTAATAGTGTTTTTGGTGAGGGAT}$

	22701 TTTCCTTTGGAATGGATGGTGATTCACCATTTGATTTCATTTTTAATCGT
	22751 TCTAAAAAACGTCAACAACAAATTGTTGTTCCCTATAACCTTGATATTGC
	22801 TTTAGTAATTGAAATTAACTTTTTTGAAATGACTAATGGTTGCAACAAAA
	22851 CCATCAAATATGAAAGAAAAGTTTCATGTCATAGTTGTAATGGTTTTGGC
	22901 GCTGAAGGCGGGAAAGTGGATTGGATCTTTGTAAGGATTGTAATGGCAA
0	22951 TGGTTTTGTTATTAAAAACCAACGTTCTATCTTTGGAACCATTCAATCCC
	23001 AAGTCTTGTGTTCAACTTGCAATGGACAAGGAAAACAAATTAAAGTTAAG
	23051 TGCAAAACTTGTCGTTCTAACAAATACACTGTTACCAATCAAATTAAAGA
	23101 GATTAATATTCCAGCAGGAATGTATAGTGGTGAAGCTTTAGTTGATGAAA
5	23151 GTGGTGGTAATGAATTTAAAGGTCACTATGGAAAATTAATCATTCAAGTG
	23201 AATGTATTGGCAAGTAAGATTTTCAAACGTAGTGATAATAATGTTATTGC
	23251 CAATGTTTTAGTAGATCCAATGGTTGCTATAGTTGGTGGGGTAATTGAAC
20	23301 TACCTACTCTTGAAGGGATTAAAGAATTTAATATTAGACCAGGCACTAAG
20	23351 AGTGGCGAACAGATTGTTATTCCTAACGGTGGGATTAAATTCTCAAAGAG
	23401 TTTTAAAAGAAAAGCTGGGGACTTAATCATTATTATTAGTTATGCACGTC
	23451 CTTGTGAATACACTAACTTAGAATTGAAAAATTACGTGAGTTTATCAAA
25	23501 CCTAATCAAGAGGTTAAACAATATTTAAATACTTTAAAAAAATGAATACAA
	23551 AACTTAATGTAAAAGGTTATCTAAATGTTGGTGATAACCATCAACTTTAT
	23601 TACTGAACACAAGGAAATCCTAATGGTAAACCGGTTTTGTATATCCATGG
	23651 CGGACCTGGTTCTGGTACTGATGAAGGATGTTTAAAGTATTTTGATCTTG
30	23701 AAACAACTTGGATTATTTATTAGATCAAAGAGGTTGTGGTAAGAGTAAG
	23751 ACTAATGATATCTTTTATGAAAATAACACTGATAAATTAGTTAG
	23801 TGAAATTTTACGTCAAAAATTAAACATTAAAAACTGAACACTCTTTGGTG
35	23851 GTAGTTGGGGTTCTGCACTTGCTTTAGTTTATGCAATTAAACACCCACAA
	23901 GTAGTTGATAAGATCTTTTTAAGAGCACTTTTTTTAGCTAGAGAAAAAGA
	23951 CTGATCTGAAGCTTTAATGGGATTAGGAAAAATGTTTTATCCTTATGAAC
	24001 ACCAACGCTTTATGGATAGTATTCCTAAAGCTTATCAGAACAGTTATGAA
40	24051 CAAATTGTTAACTACTGTTATGATCAATTTCAAAATGGTGATGAATCAAC
	24101 CAAAGAAAACTTGCTAAAGCTTGGGTGGATTGAGAATCAACATTACTTT
	24151 CACCTATTAACAAAATTCATTCAACAGCAACAGACTTTAAATTAGTTGAA
45	24201 AAACTAGCTTTATTGGAATGTCACTATGCAGTTAATAAAAGTTTTTTGGA
	24251 TGAAAACTTCATTCTAGATAACATTAGTGTTCTTAAAAATAAAAGTATTT
	24301 ATTTGGCTCATGGTAGATTTGATCTGATCTGTCCTTTATATCAACCATTA
	24351 GCATTAAAACAAGCATTCCCTGAATTACAACTTTATGTAACCAATAATGC
50	24401 TGGTCATAGTGGTAGTGATGCTAATAATTTAGCAACTATAAAACACCTTT
	24451 TAAAAACTTACCTTTAATGAAGCGTTGTTATATTACAACCCCTATCTACT

	24501	${\tt ACGCATCAGGTAAGCCACACATAGGTCATGCTTTTACCACTATTTTGGCG}$
	24551	${\tt GATGTAATTAAGCGTTTTAAAATCCAAAACGGATATGAGGCTTTTTTGCT}$
5	24601	${\tt TGTTGGCAGTGATGAACATGGCAATAAAATAGAAAGTAAAGCTAAAAGTT}$
	24651	${\tt TAAATTTAGATCCTAAAACATTTGTTGATATTAACGCTCAAGCTTTTAAG}$
	24701	${\tt TTAATGTGAAAGACCCTTAATATTAGTTTTGATCACTTTATTAGAACAAC}$
10	24751	${\tt TGATGAAATCCATAAACAACAAGTTCAAAAAACATTTCAAGATTTATATG}$
	24801	${\tt ACAAAAACTAATTTATCAAAGTGAATGAAAAGGGGCATATTGTGTTGAG}$
	24851	${\tt TGTGAACAAAATTACTTTACTTTTAATAAACAAACAATGTTATGTGAAAT}$
	24901	${\tt AGGTCATAATCTCAGTCTTGTCCAAGAACCTTGCTGATTTATTT$
15	24951	$\tt CTTCTACTAAAAATTGAATTGAAACAACGATAGGAAAAAATCAACTTAAC$
	25001	${\tt ATTATTCCTAAATCACGTGCTTCTGAATTAAAAAATAACTTTATAAACAA}$
	25051	${\tt TGGTTTAAACGATTTAGCATTAACAAGAAAAATGTTACTTGAGGAATAA}$
20	25101	${\tt AAGTTCCTTTGATCCAAATCAAACAATCTATGTTTGGTTTGATGCATTG}$
	25151	${\tt TTTTCTTATATCACCAATTTAGGATTTAGAAATGGTGATCCTAATTTTAT}$
	25201	${\tt AAAGTGATGAAATAATGACAATAAAGAAAGAAGATTATCCATCTTATAT}$
	25251	${\tt CACGTGAAATCACCAGATTTCACTGCATCTATTGACCGATTTTTCTACAC}$
25	25301	${\tt TTACTTGATATTAAGTTACCAACCCAATTTTTATCACATGGCTGGATAGT}$
	25351	${\tt TGATGGTGAAGGGAGAAAGATGTCAAAATCTTTAAACAACGTTATCTCTC}$
	25401	${\tt CAGAACAATTAATTGATCAATTTGGTGTTGATGGTACAAGATATTGTTTA}$
30	25451	${\tt TTAAAAGAGATGCGTTTAGATAAAGATAATCGTTGTAGTGTTAGCATCTT}$
	25501	${\tt AAAAGAGATTTATAATGCTGATCTTGCCAATAGTTTTGGAAACCATGTTT}$
	25551	${\tt CACGTACTTTTGGCATGATTAAAAAGTATCTAAACGGCAAATTAGAATAC}_{}$
	25601	${\tt CAAATTATTACTGATAATGCACTTCAAAAAATAATGATTTTAATAGATGA}$
35	25651	${\tt ATCAATCGTTCAATTTGATCATTACTTTAACAGTTATGAATTTTATAGAG}$
	25701	${\tt CGATTAATCTACTTTTAAAAATTGTTTTTGAATTAAGTAAATTAATT$
	25751	${\tt GATTTCAAACCATGAGAATTGTTTAAAAATCAGGAATTCTCACTTTTAAA}$
40	25801	${\tt ACAACTACTTTTTACTTGTGTTAGGTGTGCAGGTATGCTATGTGTTGT}$
40	25851	${\tt TAACACCTATCTTAGTAAATACTGCTTCAAAAGTTTTTCATTTAAT}$
	25901	${\tt TTCGCTGATGATGCCTGTAGAAAAGATCAATTAAGAGATGCAACTTTATT}$
	25951	${\tt AAAAAAATTATTATCTCTAATTCAATGGAAGTTTTATTTA$
45	26001	${\tt ATTAAGAAAAGTAGTATTAGAATTTTATTGATTTATGCAATTAGAGTACC}$
	26051	${\tt TCAATCTTATTTCTCAAGCTAAAGTTATTGCAGAAAAACAATTTAAAGCT}$
	26101	${\tt AACCCTTTTTCTTTTGAAACAATTTGAAAAGAAGTAGTTAAACATTTCAA}$
5 0	26151	${\tt GATTTCAAAACAAGATGAACCAAGCTTAATTGGTCGTTTTTATCAAGATT}$
50	26201	${\tt TTCTTGAGGATCCTAACTTTGTCTATTTAGGTGATAGAAAATGAAAACTT}$
	26251	${\tt CGTGATTTATGAAGTTTGATGAATGGAACAAGATATCACAATCTATGTT}$

	26301 TGTTACAAAGGAGATTTTTGAAGAAGGTTATGAAGATCTTTCCAATAAAA
	26351 AAGTAGAACCTGAGGAAGGAGTTGGTGATTTCATTATGGGAAATGATGGT
	26401 GATGACAATGAAACTGGCAGTGAAATAGTACAAGGTTTAATTAA
	26451 ATTCAGTGAGGAAAATCAATAGTAGATATGCTTGTTAACTTTAAATTGAT
	26501 GCTTCAAAAAGCAAAGCTAGGTAAATATGCAATCCCTCACATTAACATCA
0	26551 ATAACTATGAATGGGCCAAAGCTGTTTTAACAGCAGCAAATCAAGCTAAT
o .	26601 AGCCCAATTATTGTTTCAGTATCTGAAGGTGCTTTAAAGTACATGTCTGG
	26651 TTATAGTGTTATCCCGCTTGTTAAGGGTTTAATTGAATCACTAAGTG
	26701 TTAAAGTACCAGTGACATTACATTTAGATCATGGTAGTTATGATGCATGT
5	26751 ATCCAAGCATTACAGGCTGGATTTAGTTCAGTAATGTTTGATGGTTCACA
	26801 TTTACCATTTGAAGAAAATTTCAATAAATCTAAAAAGTTAATAGAGATAG
	26851 CACAAAAAACAAATGCTTCTGTTGAACTTGAAGTTGGTACTATTGGTGGA
20	26901 GAAGAAGATGGTGTTATAGGACAAGGTGAGTTAGCTAATGTTGATGAATG
	26951 TAAACAAATCGCTAGTTTAAAACCAGATGCTTTAGCAGCAGGAATTGGTA
	27001 ATATCCATGGTATCTATCCTAAGAATTGAAAAGGATTAAACTTTCCTTTG
	27051 ATTGAAACAATATCAAAAATTACTAACTTACCCTTAGTTTTACATGGTGG
25	27101 CTCTGGAATCTTAGAAAATGATGTTAAAAAAGCAATTAGTTTAGGGATTT
	27151 GCAAACTAAATATTAATACTGAGTGTCAATTAGCATTTGCACATGAAATT
	27201 AGAAAATACATTGAATCAAATAAAGACTTGGATCTTAACAAAAAAGGTTA
30	27251 TGATCCTAGAAAACTTTTAAAAGAACCTACTCAAGCAATTGTTGATACTT
30	27301 GCTTGGAAAAGATTGATTTGTGTGGTTCTAGAAATAAAGCATAGATGTTA
	27351 AGTGCAGGGATAGTTGGTTTACCTAATGTTGGTAAGTCAACTTTATTTA
	27401 TGCTATTACTAATTTGCAAGTTGAAATAGCAAACTATCCTTTTGCAACTA
35	27451 TAGAACCTAATACTGGCATTGTTAATGTTAGTGATGAGAGATTAGATAAA
	27501 TTAGCTAGCTTAATTAATCCTGAAAAGATAGTTTATACAACCTTTCGTTT
	27551 TGTTGATATAGCAGGTCTTGTTAAAGGCGCCAGTCAAGGTCAAGGATTGG
40	27601 GTAATCAATTCTTAGCAAACATCCGTGAAGTGGATTTAATTTGTCATGTT
40	27651 GTAAGATGTTTTCAAGATAAAAAATTGTTCATGTTAACAATACAATAGA
	27701 TCCTGTTTTTGATTTTGAAATTATTGTTAATGAACTAATCCAAGCTGATT
	27751 TTGAATTAATAACAAACAGAATCGGCAAGCTTAAAAGAAAAGCTGAATCA
45	27801 GGTGATAAAATCGCTAAAGAAGAGTTTGTATTACTTGAAATTGTTTTAAA
	27851 TGGATTAAAACAAGGTCAAATGCCCATTCAGACTCTAAGTGAAAGTGAAT
	27901 TGAAAACAATTAAATCACTTAATCTATTAACAGCTAAACCTATTCTAATA
50	27951 GTAGCCAATGTATCTGAGAATGACTTATTAAACCTTGATAATAATGAAGC
50	28001 TTTAAAAAAATTGAATGCTTTTCTTGATCAAAAAAAAGATTCCCAAGGCAA
	28051 TCACAGTTTGTTCTTTAATTGAAAAAGAATTAAGCGGTTTGAAATTAGAA

	28101	${\tt CAACGTCAATACTTTTTGGATGAACTTGGCTTAAAAAATTATTCAGGTTT}$
	28151	${\tt AAACCGAGTAATTCAAGCTGCATATCAAACTTTAAACCTTTGGTCTTTTT}$
5	28201	${\tt TTACTTTTGGTAAAAAAGAAGTTAGAGCATGAACATTTAAAAAGGGTTGA}$
	28251	${\tt AATGCTCCTCAGTGTGCTGGGCAAATTCATTCTGATTTTGAAAAAGGATT}$
	28301	${\tt TATTAAAGTTGAAGTAATTAGTTGAGATCAATTGTTTGCAATGAAATCTT}$
10	28351	${\tt TACAAGAAGCTAAAAAACAAGGTTTGATAAGATTGGAAGGCAAAAATTAC}$
	28401	${\tt TTAATAAAAGATGGTGATGTTTGTAACTTTAAATTTAACGTCACTTAAAA}$
	28451	${\tt ATTAATCTATTTTCAAAATGAGTTTTTTCAACATTTATTAATTA$
	28501	${\tt AATGCTTTTTAAAGTTGAATCTTAATTCATTTTTCAATACTTTTTTAGGC}$
15	28551	${\tt TTCCTATTCTTTAATTAAATTAATACGCTTTTCTAAAAGTAAAAGTTAAG}$
	28601	${\tt AAAAGTACTTTTATTCAAACAAAAACGTTTTTATAATTTTAGAGATAGTT}$
	28651	${\tt GTGCCAAGTAAGTATTTATTCACCGTTATAATTCCAACATACAATTGTTG}$
20	28701	${\tt TCAATACATAAAAAAGGCATTAGATTCATTGCTTTTACAGAATGAAT$
	28751	${\tt TTTTAAAAACACAAGTACTAATAGTTAACGATGGTTCACTAGACAATACT}$
	28801	${\tt AAGGAAGTTGTTAGTGACTATTTAATAAAGTACTCCAATATTAGTTATTT}$
	28851	${\tt TGAAAAAACTAATGGTAATTGGGGTAGTGTTATTAACTATGTTAAAAAAA}$
25	28901	${\tt ATAAATTAGCCTTAGGTCAATATTACTGTTTTAGATAGCGATGATTAT}$
	28951	${\tt TTTTAAAAGATAGTTTTAAAAAAGTGGCTCGTTTCTTTGGCCATGACAT}$
	29001	${\tt GATCATTGGCGCTTTTTATTGTTATTATTAATGAAAATAAAACTCGTTTTT}$
30	29051	${\tt TAAAACCTTATTTCGGTAAGACTGGTGTTATTAAAGAACATACCAAATTA}$
	29101	${\tt AGAACCCCCATTCCCAACCTATTGCTAAATTTTACAGTAATAAACTTTT}$
	29151	$\tt CTATGAACTACATGATCTTAAGGAAAAGTTATTCTTCCAGGATTGTTTAA$
	29201	${\tt TGTATCACGATGCTATTAACAGAGTTGAAAGTGTTTTTATTTGCGAGAG}$
35	29251	${\tt CCTTTAGCAGTTTGGTTTTCTACAAGACCTGGCAATTCTACAACAACTTC}$
	29301	${\tt TTGAGAAAATCCAAATAAATTTAATGCTTGGTGTGAAATTCTCCAAAAAA}$
	29351	${\tt TGAATTTGTATGGAGCTGGGATAGTAATCTACATCTATACTATGCTACCT}$
4 0	29401	$\tt GGATTTCTAAAACAACTAAAGAAAAAAAAAACAACTAATACTGAATTTGAACCA$
40	29451	${\tt TAAACCAGCTTACACTTGATTACCTAAACCTTTAGCGTTTATTTTTGGTG}$
	29501	${\tt GTTTAATGGCATTTAAAACCAGAAAATACATTAAATATCCTAAGTAATTT}$
	29551	${\tt ATGGCAGAAATGATAGAAGCAAAAATCTTCGTAATGGGCAAACCATCTT}$
4 5	29601	${\tt CGGTCCTAACAAAGAGATTTTATTAGTACTGGAAAATACATTTAACAAAA}$
	29651	${\tt CCGCAATGCGCCAGGGAATTGTTAAAACTAAAGTTAAAAACTTAAGAACT}$
	29701	${\tt GGGGCTATTGTTTGGCTTGAATTTACTGGTGACAAATTAGAACAAGTAAT}$
50	29751	${\tt TATTGATAAGAAAAAATGAATTTCTTATACAAAGATGGTAATAACTTTG}$
50	29801	${\tt TTTTTATGGATCAAAAAGACTACAGTCAGATTGAGATTAATGAAAAAAAA$
	29851	${\tt TTAGAGTGGGAAAAAATTTCATTACTGAAGAAATTGAAGTTACTGTTAT}$

	29901 TACTTATCAAGAIGAAATICTAGGAGITAATITACCTGATTATCA
	29951 TTGAAGTTGAGTTTGCTGAAGATGCTATTCAGGGCAATACTGCTAACATG
	30001 GCAAGAAAAAAAGCACGCCTTGTAACTGGTTATGAACTTGATGTACCCCA
	30051 ATTTATTAATACTGGTGATAAGATTGTAATTGCCACTGTTGATGGCAATT
0	30101 ACCGTGAAAGGTTTAACAAATAAATTAACTAGAACCCAAAGACGAATTGC
	30151 TGTAGTGGAATTTATCTTTTCTCTCCTCTTTTTCTTACCTAAAGAAGCTG
	30201 AAGTTATTCAAGCAGATTTTTTAGAGTATGATACTAAAGAACGACAACTA
	30251 AATGAATGACAAAAACTAATTGTTAAAGCATTTAGTGAAAATATCTTCTC
20	30301 TTTTCAAAAGAAATTGAAGAACAACAATTGAAAAATCAATTAGAAATTC
	30351 AAACTAAATACAATAAAATATCAGGAAAAAAGATTGATCTTTTAACTACT
	30401 GCAGTTGTTTTATGTGCACTTAGTGAACAAAAGGCACATAATACTGATAA
	30451 ACCACTTTTAATTAGTGAGGCATTGTTGATTATGGATCATTATTCACAAG
	30501 GTGCTGAAAAAAACAAACTCATGCTTTATTAGATAAGCTCTTGTAATGA
	30551 AACGTAACTGAAGACAACACTATAATGTTTTTTTTTTTAGCTAATCTAGTTTTA
	30601 GTATTTGGCTTTGCTTTAAATATTTTGGTTGCAAAACAATCTTTAAATAA
25	30651 CACAACGCCCCAGTTCAGGTTTTTGTTTGTAACTCCTTTTCTTGGCGTTG
	30701 TCATAGGTGCTGTTCTCTATTTTTTTGATGTTAAGTGGTTTTTAATTGAC
	30751 TATCCATACAAGAAATTTCACTTTCAAAAAAAATGAGCAATTGTTTATTT
30	30801 ATCAGGGGTTATTGTATTTTTTTAAATGTTTTAATTGGAGTAGT
	30851 TTGTTGTAATGGTTAATTACATTACTAACCAAATTCTTGAAAGGGAATAT
	30901 GAAAGATTATTTACAAATTCATTACCTTATTTATGATCAACAACAGGAAC
	30951 TAGTATTGTTTTAAGTCTTATTAGTATAGGAATGAGTAAAACTGCACATT
35	31001 TTTTTATTGATATAGAGATTTTGAAAGCCAAAAAAGGAGAACCCACTGAT
	31051 CCTAATAAAACTGATAATAGAGCAGTTGTTATTAATCTTGATGAGAATAA
	31101 AAAGAATGAAAAAGaACAGTCCCCTCCTTCTGCAGAAATGACTAGTCTTT
	31151 AATTTCACTACCAAATAACCTTTTATGAACAAGCTCATTTAAAGTGTTAT
	31201 CTTTTAAAAAGTGCACACAATAACTGTTGCAAATTCCAAAGCACAACCA
	31251 GCACTTCTTGCTGTTATTAATTTATTTGCTACTGTTACTTTTGCTGTTGA
	31301 TCTGTTTTCAGACATAACTAAATTTGGGTTTGGAAAAGAAGAATAGATCT
45	31351 CATCTTTAGTGATAATACCATGTTTAAATAGAACATTCGGTGTGTCACAA
	31401 ATAGCAAAAAGATAAAGGTTATTTACTTTGAAATAATTAAT
	31451 CAGTTTTTCATCTTTATCTAAGTGTTTTGTAGCTCCTATTCCACCGGGAA
	31501 TATAAACTGCATCAAATTCTGATAAGTTAATGGTGTTGACAATATTGTTA
	31551 ACTTCAACAACACCATTACTAGCAGTTATCTTTTTTAATGAATG
	31601 ACATGTTGTTTGTATTGTTTTAATGAAACTAAATACAACCATTACATTAG
	31651 TATATTCAACATCATCATCTCTGGATAGACAATAACAAGTATCTTTTTC

	31/01	ATTITATIONCEMATAMEGGICCCCAGCATCACCAAGACCAGGG
5	31751	TTATGTATCTATTGTCATTTAACTTTTCATCAATTGCTGCAAGAAATATA
	31801	${\tt TCAACATGAGGATGCATTTTTLCTACTTTATTAATTCCTTCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG$
	31851	TACTATAGCAATAACACTAATTTTGATAGGTTTATCTTCTTTAATAGATT
	31901	TAATAGCAGTTAACAATGTAGTTCCAGTAGCAAGCATAGGATCAAGAATA
10	31951	ATAACATGTGAATCAGAGATGTTTTCAGGCATCTTTTTATAGTATGAAAT
	32001	${\tt TACACTGGTTGTTTGGGTTTGACGATAGATTCCTAAATGACCAACTCTGAAATGAACTCAACTCTGAAATGACAACTCTGAAATGAACTCAACTCTGAAATGAACTCAACTCTAAAATGAACTCAACAA$
	32051	${\tt TTTTATCTGAATAGCGAACAATAGCATCAATCATTCCAAGTCCAGCACGCAC$
	32101	ATAATAGGTACAAGAACAATGTCATTTTTTAATTTGTAGCCCTTTGTTTT
15	32151	${\tt AGCAAAGGGAGTTTCAACTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTGCTAGTGGTAGCTGTTTAGTTCAACTGTTAGTTCAACTGTTAGTTCAACTGTTAGTTCAACTGTTAGTTGCTAGTGGTAGCTGTTTAGGTTCAACTGTTAGTTA$
	32201	CTTCAAAAAAGAGTAATGAAGTGATTTGATTCAAGGCCATGCGAAACTGC
	32251	${\tt GAGGTTGTTGTATTTTATCACGCAGTTTTGTCAATTCATTC$
20	32301	${\tt AGCATGTTGAACTTTTTTTTTATCACGTTAGTTATCTTTAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAATAAGTTTAAAATAAGTTTAAAATAAGTTTAAAATAAATAAGTTTAAAATAAATAAATAAAGTTTAAAATAAATAAAGTTTAAAATAAATAAATAAAGTTTAAAATAAATAAATAAATAAAGTTTAAAATAAATAAAGTTTAAAATAAATAAAATAAAATAAAATAAAATAAAATAAAA$
	32351	CTAAAAATTAGTTGAAAAGTTTATGATCATCTTGATGTTCAAATTCATCX
	32401	${\tt AACAGTTGTAATTGTTCCATCGTTTCAACGTGTTTTTTAGTAATTTTGGTAATTTTGGTAATTTTGGTAATTTTGGTAATTTTTT$
	32451	TCTTTTTTTGAAATCATTTAAGGAAGCAAATGGTTTTTCATTTCTTGCTT
25	32501	CTACAATTGAAGAAGCTACCGCTTCTCCCATTCCTGGAATAGTGATGAA
	32551	GGCGCAATTAAAACACCATTATGTTCAACAAACATCCTTGCATTAGAGTT
	32601	TTGAATAGAGATTTGTTGCAACTTTATATTGCGTGCCATCATTTCTAAAT
30	32651	AAACTTCATAACTTGTTAAAAGCTCCGCTTCTTTTGGTTTAATCTTTTT
	32701	ATTCTGTAAAGCTTATTAAGTTCATCTAAACGGTTTTTAATAAATTCATA
	32751	CCCTTTTCAAAACCATTAATATCATGTTCCTTTAGTTTGAAACTTAATA
	32801	AACAAGCATAGTAACTCAAAGGGTGATAAAGCTTAAATCAAGCAATTCTT
35	32851	CAAGCCATTAAAACATAAGCTGCAGCATGTGCCTTAGGGAATAGATAATT
	32901	AATTTTTAAACAAGCATTAATCCAATATTGTTCAACACCACAGTTTTGC
	32951	TCAGGCTAACTTCTTTAGCATTTACTTTAATACCTTTTCTTACTTTTTCC
40	33001	ATGATTCAAAAGCATCTTTTGCTTGCATCCCTTTATTAATTA
	33051	CATGATGTCATCTCTACAAGCAATTACATCTCTTAAAGTTAACCTATTGC
	33101	TTTTAATTAGTTTTTGTGCATTATCTGCTCACACGTTTTTACCATGGCTT
	33151	AATCCTGAAACTCTAATTAAGTCAGCAAAGTCTTTAGGTTTTGTCTGTTC
45	33201	TAAAATTTTTCTAACAAATTTAGTCCCAAATTCAGGGATACCAACCGCTC
	33251	CTGTAACTTCATCAACAATGCCTGGTTTTAGGTTTAATGGTTTGAT
	33301	GAAAACATCGAAATTAAGTTCTTATCAAAGTGAGGGATATTTTGGGGAT
50	33351	TATCTTAGTTAGATCAGCTAAGTGCTTTAACATTGTTGGATCATCTTGAC
50	33401	CTAAGATATCAAGTTTTAATATGGCATCACCTAATGCATCATATTCAAAA
	33451	${\tt TGGGTGGTCTTTCATTCACTTTCAACATCATCTGCTGGAAAACCACAGGCCACAGAGAAAAACACAACA$

	33501 AGTAAATTCATAAACAGAATGATCACTAGGAAAGATCATAATTCCCCCTG
	33551 GATGTTGCCCTGTTGTTCTCTTAATTCCTATAAGCTTTTGTTTAAATCTT
	33601 TCAATTTCAGCAGTAGTTGCAAGATCAACACGTTTAATGATTTCAAAATA
	33651 GTTTCTAGCATAACCATAAGCAGTTTTTCAGCAACTGTTGCAATTGTTC
	33701 CTGCCCTGAAGGTGTTATTAACTCCAAATAATTTTCTGACATAATCATGG
	33751 GCTTTAGCTTGATATTCGCTAGAAAAATTAAGATCGATATCAGGAATTTT
0	33801 ATCACCAGAAAAACCCATAAAAGTAGCAAAAGGAATGTTATGACCATCAC
	33851 CTTTGAAACTTGCTTTTCATGGCATTTAGGACAATCACGAATCATCAAA
	33901 TCATATCCATCATCAACACTGTCACTAACTTCAAAGTAATGACATTGTTC
15	33951 ACAAAGATAATGAGCAGCTAATGGATTGATTTCTGATATACCAATTAAAT
	34001 TAGCAATTAAAGAAGAGCCTATAGAACCACGTGGACCTACAAAATAACCA
	34051 TCTTTAACAGATTGTTCTACTAATAGATGGGAAATTCAAAAGACAATTCC
	34101 AAAACCATTACTAATGATTGCATTTAGTTCTTTTTCAATTCTTTAA
20	34151 TAAGTTTAGGTAAATTTTTACCATACCTTTTTTCAGCTTGTTTTCAAGTT
	34201 TTATCAATTAATTTTTGGTTAGAATCTTGCATCACTGGTGGATAAAGCTT
	34251 GTTTTTAGTTGGTACTAATTCATTTAAGTCAAGTAGCTTCACTATCTTAT
25	34301 TAGTGTTTTCAACGACTAATTTATAGGCAATATCTTCTCCTAAAAAACTC
	34351 ATTCTTTTTAGCATCTCATCAGTGGTGTGAAGAAATACTTCAGGAACGGT
	34401 TTGTTCTTTTTTTTTTTTAAAGTGTCTATGTCATTTCCCACCTAAGC
22	34451 CCTTAGCACAAACTATTGCCTTATAATATTCATTTTCCCAAGGATGGAT
30	34501 AAGTAAGCATCAGATGCAACAGCAACTAATTTCTTAAGTTTTGTTGCTGT
	34551 TTTGATAACTAGTTTGATTGCATCATTAATAAGTTCTTTTTCAGTCCTT
	34601 CACGTAGTGTATAACCAAGGTAAGCATTGGGTTGTGAAATAAGCACAAAG
35	34651 TCAACTTTTCAATTGCTTTTTCAAGTTCATTAATTGGTTTTGTTAATGC
	34701 AGCTTTAAAGATGTCACCCTGAACAGGGTTTTCTGTTAATAAAAAAGATT
	34751 TTCTAAATTTAGCTAAGCTGCTAGCTAAAACTAATGGTCTGTTAGCATTA
40	34801 TGATCTGTTAATGCAATTGATAACATCTCATATAGGTTTTGAAAGCCCCG
40	34851 TTGGTTTTTTACATAAACGATTGCTGTGTTTTGTAAATACCCTTTTCATCA
	34901 GATCAATTTGACACTTTTTATTTAGGTTTTGATCTATCTCTGTTAAGGTA
45	34951 TTAATACCCATTTCTTTTAACTGCTTTTTAAAGTAAAAGAAAACTTTTTT
	35001 TAAAGCTTCTGTATCATATTCAGCACGGTGTAATCTTTCATCATCAAAATT
	35051 CAAGTTTTAGTTTAGAACAAATATTGCTTAAAGTATGGGATGAAAACAAG
50	35101 GGATTCAATGCTCATGATAAACATAAGGTATCAATCAGTGGGTTTGTTAA
	35151 TGGTTTGATGTTGTATTTTTCAAATTGAGTTTGCAAAAAGGGTAAATCAF
	35201 AATTAATACCATTATGAGCTACCATAACACAATCATCTAGATAATTTCTT
	35251 ATCTTTTCTAAACCTTGCTGTTGATCAATACCGCCTTCAAGCATCTCATC

	35301	${\tt AGTTATTTGGTGATTTCAGTGATTGTTTTTGGGATAGGTTTGTCAATTT}$
5	35351	${\tt TTAAAAAGAATTGCTGATGATCTATCTCGCTGTTATTCTTAATTTTGCGT}$
	35401	${\tt GCTGAAAACTCAATAACATCATCATACCTACCATGTAATCCAGTGGTTTC}$
	35451	${\tt AATATCAAAAATAACAAAGGTGGCATCACTTAACTTAGTGTTATCTGGGT}$
	35501	${\tt TGTGAACAATTTGATGTGATCATCAGTTAAGTTGAATTCCAAACCATAG}$
10	35551	${\tt ATAGCTTTAAATCATATTTTTTAGCCACTTCATAAAACTTGGGATAAAT}$
	35601	${\tt ATGGATATTATCTTTATCTGTAACAGTTATTGCTTTTCAACCTCTTTCTT$
	35651	${\tt TAGCAAACTGTGCATATTCTTCAATGTCATTGATACCATCAAAAGCAGTC}$
	35701	ATTTTAGTATGAAAAACTAACTCCACTCGCTTTTGTTTTGATAAATCTAA
15	35751	${\tt CCTTTTATAGTTATTAGGTATTTCAACAGGATTTATCTCTCTAACAATTC}$
	35801	${\tt CATATAAGATTTGAGTATTAGGGTCACGTTCTACTTGGATATGGGCTTTT}$
	35851	${\tt ATCCAATTGCCAATAGTAATTCCTTCAATCTTTTTTCATCAGTATAGGA}$
20	35901	${\tt TCATTTCAAAATTAACGATCCACCTAATTGAAAATCAGTTACATAGATAT}$
	35951	${\tt TAAGTGTTTTTTACCAGTTAAACTTTCATGGGTTTTTAATTCAAAGATT}$
	36001	${\tt TGCCCAATAATCTTGACATCATCGATCTGTTGGTTAATCTTGTGGATAGG}$
	36051	${\tt GATAAATTCTGTTGCAAATACCTTTGTTTCAAACTGCTTATCATATTGAG}$
25	36101	${\tt AAACAGTTACAGCTTTTACTTTTAATTTAGATTCATTTTTATCAATAGGA}$
	36151	${\tt TAAAGTGCAATGAAGTTAAAAGTTTTTAAAACCAGCATTATTCATCCAAAA}$
	36201	${\tt AATGAAAGATTTACTTTTTGAACTAATCATTCAGTTAATTCTTTGGTTT}$
30	36251	${\tt GACATTGTGCTTTTAATTCGTCATTTTCATAACTAAGAAAATTGGGATTA}$
	36301	$\tt CTTAACTCTTGTTCAATGAGAATTTTGTATTTCTTATCTTTTGAAAAGAA$
	36351	${\tt ACTGTGAAAATAGTCTTTAATAATAGCTATCGTTACAGAAGAAAAACTAT}$
	36401	${\tt TTTTGATTTAAAGAATGGCTCATTCTCCTTAAAGGTAATGGTAAGTTTA}$
35	36451	${\tt AAAGATTCATTATCAGCTTTAAATCCCTCATTTAATTCATTAAATCCTTC}$
	36501	${\tt ATATAAAGCATTTCAAATATCAATAGTTAAAGGGCGACTAATAGTTATTG}$
	36551	${\tt CAAATAGAAAAACCTTCTTCTAATATATTTATTAAAGTAAATTGATTCA}$
40	36601	${\tt ATCCTTTCAATTAAGCTGTTAAGCTCATTGTGGTCAAGGATATTGTTATC}$
	36651	${\tt TATCAAAAATTGGAGAGTGCAAGAACCTTTTTATCTTTTCATTCTCAA}$
	36701	GATTAAATACCATAAGCGTTTATTAAAAAAATCAAAATAAAAGATCGAAA
4 5	36751	${\tt TTTATCAATAATTATTTTTAGTTTTAGCCACTTTTTCGTAAAAAAAA$
	36801	${\tt AAAAAAAAGCAGTTTTTGCTATTTTAGACTAAAAGTGGTTATATACCAAA}$
	36851	${\tt ATTTAAACCTTCTTTTGGTTAGTTCTTACTAACAGTTTTAAATGTTACACC}$
50	36901	${\tt AAGTTTTTCAAAGTGTGAATTTAAAAACTTCAAATAGTTGTTTATTCTGT}$
	36951	${\tt ATCTAATTAACCTTTAATCTTTCAATAATGAAAACAATTCATAAACTATT}$
	37001	${\tt TTTAGGTCTTTGTTTACCCGCAACATTAGGTCCTTTACTTGGAATTGTTG}$
	37051	${\tt TTACAAATACTGACCAAAGTATTAAGTTTACAAGCAAATCAAATTCGATT}$

	37101 AATAAGAATAACCAAAATAAAGAGTTGGCTCTACTTAGAGATAATTTGAT
	37151 GAACGAAGCGAAAGTTGATGAACCACTTTCCTTTGAAAAACGGTTTGAAA
	37201 ACTTTAAAAATAAGTATAGTGATATACATAGCTTAAATAACAGTGTTTTT
	37251 TCACTTCATGACGTTTATGACTTATTAGGTGGATTTAAACAATCATTGAC
	37301 AACATTTTTTGATGAAGTGATTGCCCAACAACAAAAGATCAAGGATGCAG
	37351 ATAAGATCTTTCCAAGTACTAAAGATAATCCACCTAAAGAAGAAAATCCT
0	37401 AATGTTTTAGATACACTAGCTAACTACCAAGGAGCAGGATTTTTCCCTAG
	37451 TTTAGGTAAAAATGGTTTTAATTTACCTGAAGCAGTGTTCCAAAATTTCA
	37501 CTGATTTTAGGATTAATGACTACAAGATTAAAAATTTTAATGTTGATCTT
15	37551 GTTAGTGAAAATGACATTATTAAACATGATAAAGTTCGTTATGCTTTTGA
	37601 AGTTAAGTTCAATATTGCTTTAGTTTTATCTATTAATAAGTCAAATGTTG
	37651 ATTTTGACTTTGATTTCATTTTAAAGACTGATAATTTCTCAGACATTGAA
	37701 AACTTTAATGAAATTTTCAACAGAAAACCTGCTTTACAATTTCGTTTTTA
20	37751 TACCAAGATCAATGTACATAAGTTAAGTTTCAATGGTAGTGATTCCACTT
	37801 ACATTGCCAATATCTTGTTACAAGATCAGTTCAACCTATTAGAAATTGAT
	37851 TTAAATAAATCTATTTATGCATTAGATCTTGAAAAATGCTAAAGAACGCTT
25	37901 TGATAAGGAATTTGTTCAACCTCTTTATCAAAAACGACGTGAAGCAAAGC
	37951 TTGCTTGAGAAGAAGAACAGAGACGCATTGCTGAAGAACAACGTAGACAA
	38001 GAAGAGGAGAGCTAGAATCTTAAAAGAGTTAAAAGAAAAAGCTGAGAA
	38051 AGATAAAAGAGTTAAAGAAGCACAAAACCACCTTCAAAAAAGCACTTGGTA
30	38101 ACTTAGATACTTTCTTTAACTTCTTTAGCAGTGGTCAAGATAGAGTTTTA
	38151 CTTGGTTTTGATCCAAATAAATACAATGTGCAAACTCGTGAAGGTTTGTT
	38201 TAAAGCATTACAAATTTCCTATTCTAACTTCAAAACTTGAACATTCTATA
35	38251 TCTCCTTGTTGGGGTGAAAAGAAGGTAGTGTTAAACTGTTGAAAAAACCT
	38301 ATCTGAAATGCCTTGAGAGATGATAAAGCATTTCAATATGCTTTTGGTTT
	38351 AGGTCCAAATACTTCTGAACAACAACTTGGTAGAGTAACCCTACCTGGTT
0	38401 ATGGTTATGAAGGAATTAGAATGAGTGATTGGTTGAGGTGAGCATTGGGT
40	38451 TACTATACTAGTTTCACTTTAAGTCCACCTAAAAATGTTGAAGCTAATCT
	38501 TATAGGTGATGCTAATGATAAAAAACACATTTGAATCTCACCTCATACTT
	38551 TCAAATTAAACAGAGAGTATGGTGATGGTGAAAGATTCAAAGGTAAAGCA
45	38601 TATCGTTTTAAACTATCAATAAGTTTTGAACTAGAAGGTCATTTAACTGC
	38651 CCACTGATGAACAATTGCCTTTAGAGGTAGTATTCCTGGAAGCTGAAGTG
	38701 GTAAGTTAAGAGTTACCCATGAGTTTGATGGTGATGTGCCTTACTATAGA
50	38751 TTACATACAACTCCACCACAATATCGTTTAACTGATGATATGAAATTATT
	38801 GTTTGTTCCGCACAGTATCCAAAGGGTAACTGCAGTTGGTAATGAAAGCA
	38851 TTAATGGTCTTCTCAGATCACAAAACCTTCATAACTTGGAACGTCAATCA

	36901	INIOANGCONCIGCICCINIIONIIIANINICAININIGCIIINIOCAN
5	38951	TAGTGATAAAAACCACCTCAAAAATAAGTTTTATATCATTAACGTTTAA
	39001	ATAAATATTATTGCTAAGATTACTTTAAACTTGTTAGCAAACTTTAATC
	39051	TTTTTTAGCTAAATTAAACAACCAGTTAATTAGTAAACAGTTCCAGAATT
	39101	AAAATCAAATATTAGTTAGTTTTTTTTTTTTTTTTTTTCAAAATTCTACTC
10	39151	${\tt ATTAGGATGATGGTTTCTTGCTGAATTGATAGGAACATTTATCCTAATTAGGAACATTAGGAACATTTATCCTAATTAGGAACATTAGAACATAGAATTAGAACATAGAACATTAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAAACAATAGAACAATAGAACAATAGAACAATAGAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAACAATAGAAAAAAAA$
	39201	${\tt TCTTTGGTAATGGTGCAGTTGCCCAAGTTAATTTAAAGAAGATGGCTAC}$
	39251	${\tt AGTGAAACAAAAGCCAAGTTTTTAACAGTTGCACTTACTT$
	39301	${\tt TGTTTTATTTGGTGTTTTAACTGCTAATGCTATCTTTAAGGGTAGTGGTCCTAATGCTATCTTTAAGGGTAGTGGTCCTAATGCTATCTTTAAGGGTAGTGGTCCTAATGCTAAT$
15	39351	ATTTAAACCCTGCTATATCATTATTTTATGCAATTAATGGCAGTATCAA
	39401	${\tt TCACCTACTGCATTAATATGACCTGGTTTTGTAATTGGGGATTTTAGCTCACTGGGGGGGG$
	39451	ATTCTTAGGTGCAATGATAGCTCAAACAACACTTAACTTTTATTTTGAA
20	39501	AACAACTATCATCAACCGATCCACAAACAGTTCTAGCAATGCATTGTACA
	39551	${\tt AGTCCTAGTGTATTTAACATTACTAGGAATTTTCTAACTGAATTTATTGC}$
	39601	AACTTTAATATTGATAGGTGGAGTTGTTGCTGCTAGTCACTTTCTTCATA
	39651	ACAACCCAAACTCTGTTCCTCCTGGATTTATGGGGCTTTGATTGGTTGCT
25	39701	${\tt GGGATTATTATTGCTTTTGGTGGCGCTACAGGCTCCGCAATTAATCCTGCCTG$
	39751	${\tt AAGGGATTTGGGAACTAGAATTGTGTTTCAATTAACTCCAATTAAAAATAGAGGATTAAAAAATAGAGGAACTAGAACTAGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAACTAGAACTAGAAATAGAGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGGAATTGTGTTTCAATTAACTCCAATTAAAAAATAGAGAGAG$
	39801	AGGATGCGAATTGAAAGTACAGCTGAATTCCAGTAATTGCTCCTTTATCT
30	39851	GCAGGATTAGTTTTATCAATAATTATTGGGTTTTCCCCTGCACCTGTTCT
	39901	TTAAAGTTTTTGGTTTTAACAGTAACGTGCTTTTTAGTTAAAAATGAGTC
	39951	GTGCAGTTTGCATCTAGCTTCATAAGCTTCTGCATCACCAATTAAGACAA
	40001	${\tt GGTTATCATTAGTATTTTATTTACTAGTCTTTGGGTTCGTTGTGCTAAM}$
35	40051	CTACCACAAACATTGCAAATAGCATCAAGTTTATTAACTACATCAGCTAT
	40101	TGCTAAAAGTTGGGGAATACAACCAAAAGGCTCAGCTCTAAAATCAGTAT
	40151	CAAGCCCAGAAATAATTACATTTGTTCCTATCTCATTGAGAGTTGTAACA
40	40201	ACTTCTATAATCTCATTTGAAAAGAATTGTGCTTCATCAATGGCAACAAT
	40251	TTGATAGTTTTTATCAACTAAGTGATCATAGATCTCAAAAGGAGAATTAA
	40301	TAGTTATTGCTTGATCATATTCACCGTTGCGTGATTTGACAATATTAGTT
4 5	40351	TGTCTAGTATCAATTATTGGTTTGAAGATAACAACTGAAATTTTGGCTAT
	40401	$\tt CTTTCACCGTTTTATTTTGTGAAGTAATTTCTCTGTTTTTCCAGAAAACPAGTAATTTCTCTGTTTTTCCAGAAAACPAGTAATTTCTCTGTTTTTCCAGAAAACPAGTAATTTCTCTGTTTTTCCAGAAAAACPAGTAATTTCTCTGTTTTTTCCAGAAAAACPAGTAATTTCTCTGTTTTTCCAGAAAAACPAGTAATTTCTCTGTTTTTTCCAGAAAAACPAGTAATTTCTCTGTTTTTTCCAGAAAAACPAGTAATTTCTCTGTTTTTTCCAGAAAAACPAGTAAATTTCTCTGTTTTTTCCAGAAAAACPAGTAAATTTCTCTGTTTTTTCCAGAAAAACPAGTAAATTTCTCTGTTTTTTCCAGAAAAACPAGTAAAACPAGTAAATTTCTCTGTTTTTTCCAGAAAAACPAGTAAAACPAGTAAAAACPAGTAAAAACPAGTAAAAACPAGTAAAAAAAACPAGTAAAAAAAAAA$
	40451	TTGGGCCACAAATAACTTCAGTTCAGCCCTTTTTGGTTTGAAAAGATGGT
	40501	TGATATTTACCCATATAATTTCGAAATTATAATTAATGACACATGAACTT
50	40551	CTTGCAAAAACCAAGGGGAGTTAAAGATTGGTTTGGTGATGAATTAGTTT
	40601	ATTTTAATTGGATTGTTAAAAAAAATAAGATCTTTAGCATTTAATTGGGGT
	40651	TTTAGTGAAGTTAAAACTCCGTTGTTTGAAAATGCACAACTTTTTCAAAC

	40701 ATCTAATGCTAATGCTGATATTGTTCAAAAAGAACTATACCAGTTTTTTG
	40751 ATAAATCTCAAAGAGAATTAGCTTTAAGACCTGAAGCTACTACACCAATA
5	40801 GTAAGACTTGCTTGTGAAAACAAATTAATGCAAGAAGCAAATTTTCCCTT
	40851 AAAGTTATTTTGCATTGGTTCAATGTATCGTTATGAACGTCCACAAAACA
	40901 ATAGGTTTCGTGAACATTGGCAATTTAGTTGCGAAGTATTTGGTTTTTCC
40	40951 AACCTGTTTATCTTTTTAGATACACTTTTGTTTGCTAACTCTTTGCTTGA
10	41001 AGCACTTGGAATTACTGGATATGTGCTTAAAATTAATAATCTTGCTAACT
	41051 TTGAAACACTTAGTAAGTGAAATAAAGCCCTAAAAGATTATTTAACTCCA
	41101 TATAAATTAGAACTAACTGAGCTTTCTCAAAAAAGATTAGAAAAAAATCC
15	41151 TTTGAGAATTTTAGATGACAAGATAGATCAAAAAAAAATCATTTGTTAAAA
	41201 ATGCTCCTAAAATTACTGATTTTTTAGATGCAAGTGCAAAACAAGATTCA
	41251 GAATTGTTAAAAACACAACTAAAAAAACACAATATTAGTTTTGAATGAA
0	41301 AGACAATCTAGTTAGAGGATTGGATTACTATACTGGATTTGTGTTTGAAT
20	41351 ATGTAAAAAATCAAGACACAATTTTAGCAGGTGGAGTTTATGATAACTTA
	41401 GTTGAAGAATTAAGTAGTAATCCAACTCCCGCATTAGGTTTTGCTTGTGG
	41451 AATTGAACGGTTAATTAACTGTTTAGAAATTGATAAAAAAAGCATTTATTT
25	41501 TGAATACTAAACCAAAGCAGATGTTAGTAATTTGCTTATTTGAAGAAGCG
	41551 CTTGAAGAATTGGTTTGACTAGCTAAATTATGAAGGGAATATAACCAAGT
	41601 AACTATTTATCCTAAGGTTATTAAAGTTGATAATGGGATTAGATTAGCAA
	41651 ATCGCTTGGGTTATACTTTCATTGGCATTGTTGGAAAAACTGATTTTGAC
30	41701 AAAAAAGCTATTACAATCAAAAACTTAGTATCTAAACAACAGACCATTTA
	41751 CACTTGAAATGAACTTGGAGAACGAAATGTGTTTTAACCAACGAATTTTA
	41801 ATTGGCTCAATTTCAACTGAACAACTCAATAAAACAATAGTTATTATTGG
35	41851 GTGAATTAAACGGATTAAAAAGTTAGGTGAAATTAACTTTATTATCGTTG
	41901 GTGATAAATCAGGAACTATCCAAGTAACTTGCAAAGATAAAGAACAGATT
	41951 CAACAACTTACAAGAGAAGACATAGTTATTGTTAAAGCCAAATTACAACG
	42001 CTTAGATAGTGTTAGATTTGAACTGATAAATCCAACTATTAAACTTTTTT
40	42051 CAAAGTCAAAAACTCCTCCTTTAATTATTGAAGATGAAACTGATGCTTTA
	42101 GAAGAAGTTAGGTTAAAATACCGTTACCTTGATCTGAGAAGACGTTTGAT
	42151 GCAAAAACGATTGTTATTGCGTCATCAATTTATATTAGCAATTCGTAACT
4 5	42201 GATTTAACCAGCAGGGTTTTATTGAAATAGAAACACCTACCT
	42251 TCAACTCCTGAGGGAGCACAAGACTTTTTAGTTCCTGCAAGAATTAGAAA
	42301 AGATTGTTTTATGCTTTAGTTCAAAGTCCACAAATCTATAAGCAGCTCT
50	42351 TAATGATTGCAGGAGTTGAAAAATATTTTCAAATTGCAAGGGTCTATCGT
	42401 GATGAAGATAGCAGAAAAGATCGTCAACCAGAACACACAC
	42451 CGAGATCTCTTTTGTAACCAAAAAATGATTATGAATCTAGTTGAAAAA

	42501	${\tt TCTTTTTTAGTGTTTTCTTAGATGTTTTTCAAATCAAAATAAAAAAAA$
5	42551	${\tt TTTCCTGTTTTTAAATTTTCAGAACTTTTTGAAAGATTTGGTAGCGATAA}$
	42601	${\tt ACCAGATTTACGTTATGGTTTTGAAATAAAGATTTCACCTCGCTTTTTC}$
	42651	${\tt AAGATCATCAGAATCAGTTCACTAAATTAATTGAAGCAAAAGGCATTATT}$
	42701	${\tt GGTGGTATTGAACTTACTAATATTGAGTTAAGTACAGACAAAATTAAAGC}$
10	42751	${\tt ATTAAGAAAATTGCTAAGGACCATGATGTGAGTTTAGAAGTTCATAATA}$
	42801	${\tt AAAATAATTCAACATTAAAAACTTCAATTAAATGTGATGAAAAAAAA$
	42851	$\tt CTTCTGTTAGTAGCAAATAAATCTAAAAAGAAGGCATGAACTGCTTTAGG$
	42901	${\tt AGCAATTAGAAATGAGTTGAAATACCACTTGGATATTGTCAAACCTAACC}$
15	42951	${\tt AATACAGCTTTTGTTGAGTTGTTGATTTCCCTCTCTATGATTTTGATGAG}$
	43001	${\tt AAAACAAATCAGTGAATATCAAAATCACAACATCTTTTCAAAACCTAAACA}$
	43051	${\tt AGAATGAATTGAATTTTGAATCAAATAAAAACGAAGCATTAAGCGAAC}$
20	43101	${\tt AGTTTGATCTTGTTTTAAATGGTTTTGAAATTGGTAGTGGTTCAATAAGA}$
	43151	${\tt ATTAATGATCCAATTGTTCAAAAAAAGACTAATGAATTCTTTGAACATTGA}$
	43201	${\tt CCCAAATAAGTTTGCTTTTCTAGAAGCTTATCAATATGGTGCTCCTG}$
	43251	${\tt TTCATGGTGGAATGGGACTAGGTATTGATCGTTTAATGATGATTCTTAAT}$
25	43301	${\tt CAAACTGATAACATCAGAGAAGTAATCGCTTTTCCTAAGAATAATCATGG}$
	43351	${\tt TATTGAAGTCCATACAAACGCTCCTGATAAAATTGACAAAGAGGAGGTTA}$
	43401	${\tt AATGATGGATAAAAGAACTAGTGAAATAGAGTTTCACTTAAAGAATCTTT}$
30	43451	${\tt TGGCTTGTGATGCATATAAACTTTCACACCGTTTAATGTATCCACAAGAT}$
	43501	${\tt ACACAAAACCTTTATAGTATGTTAACTGCAAGAGGTGTTTATGGTGATTT}$
	43551	${\tt TAAGGAGTTTGTTTGAAACCATGATTTTGCTAAAGAGATCCTTTTGAATG}$
	43601	${\tt TATTTAATGGTTTTGTAAACAGTGTAATTGAAGTTAAAAAAAA$
35	43651	$\tt CTAGCTGCAGCATTGACAGATAAATTAGTTAGTGTTTTTAATGATCATGA$
	43701	${\tt ATTGGCTAATGAATTCACACACACACATCTGTCATTTAGCTAGTTTCTTAG}$
	43751	${\tt AGAAAAATAAAAAATGCCGTTAGTTGCAAAGATCCATGAAAGTGATCAA}$
4 0	43801	${\tt TCATTACCATTTAGAACTCCTTTAATAACTATAGAAGGAGTTGAAAATAT}$
40	43851	${\tt TCCAAACAACTTTGTATGGTTAGTTAATTACTTTGAAACTGTACTTCTAG}$
	43901	${\tt AAAACATTTGGTTGTTTCAAACTGCTTCTACAGTTGCTAAAAGAATTAAA}$
4 5	43951	${\tt TCTTTACTTGAAAAATATGCTAAAGAAACCGCAGATGAAACAAGTTTTAT}$
	44001	${\tt TAATTTTCAATGCCACGACTTTAGTATGCGGGGCATGAGTAGTTTGCAAA}$
	44051	$\tt GTGCTTTGTATGTTGCTAGAGCACACTTGCAATACTTTACTGGAAGTGAC$
	44101	${\tt ACGATCTTAGGTGGGGATAATTCTCGTTCAATTTTAGCTTCTGAACATTC}$
50	44151	${\tt AGTGATGTGCGCAGATGGTAGTAAACATGAATTGAAAACTTTTCAACGTT}$
	44201	${\tt TATTGGAAAAGTTTAAAGATAAAAAACTTTCTTTAGTGATTGAT$
	44251	${\tt GACATGTGAAATGTCCTTGATAACATTATTCCAAGGTTAAAAAACTTAAT}$

	44301 CTTAATGCGTGGTGCTACGCTTTATTTGCGTGCTGATTCTGGTAATTATC
	44351 AAACTCTTATTTGCAATCCTAATTACAAAAAGCAAGATAAAAGTACATGA
	44401 GCAATGATCGATTACTTAGATCATCATTTTAGTTCAACTATAAATAA
	44451 AGGTTATAAGGTTTTAAACAAGAAAATTGGCATTATTTAT
	44501 TCAcCTATCAAAAGATAGAATGGATCTTAAATTGTTTAAAAAACCATGGT
0	44551 TATTGTtCTTCAAACATTATTTTTGGAGTTGGTAGCACTTATCAAAA
	44601 TTTAAACCGTGATACTTTAGGTTTTGTATACAAATTGACTGCTATTAAAA
	44651 GAAATAATAGATGGATAGGCGTTAAAAAAACTCCCATAACTGATCTATCT
	44701 AAAAGTTCAAAAGGCGGTAGATATAAAACAAAGCGATTAATTA
5	44751 TTAATCAATTTCTTTCCATTTTAAAGCACGTTCAACTGCTTTATGTCAAC
	44801 TGTTAATTTTGGTTTTTCTTATGTTTTGGGTCCATAGTGCTTTTGAACTTT
	44851 TTATCAAGAGTAGTGAGTTTTTCAAGTTGATGAATGTCTTTTCAAAATCC
20	44901 ACAAGCAAGTCCAGCTAAAAAACAACACCAACTGCAGTGGTTTCTTTAT
•	44951 TTTTAGGGATAGAAACAATTACATCTGCAATATCAGCTTGAAACTGCATT
	45001 AAATAGTTTGATTTAACAATCCCCCCATCAGCTTTAATGCTAGTAATCTT
	45051 ATAGCCTAGATCACTTGCCATTGCATTAATAAATCATTAGTTTGAAAAG
25	45101 CAATTGACTCTAAGCTAGCTTTTACTATGTGCTCTCTTTTAGTGCTTGCT
	45151 TCAATTCCTAAGATAATACCCCTAGCACTAGCATCTCATCAAGGAGCTCC
	45201 AAGTCCACTGAAAGCTGGTACAAAAACTAGGTTTTGTTCATTTTCTTTTG
30	45251 CAAGTTCTGCATAAAAATCACTTTCCTTTTCTGAATAGATAATTTTTAAT
	45301 GCATCCCTTAACCATTTTATAGCCGCACCCGCTACAAACACACTACCTTC
	45351 CAATGCATATACAGGTGGATGATTTTCTAGTTGCCATGCTACTGTTGTGA
	45401 GCAGATTGTGCTTTGAGAGTGTTGGTTTATCACCAATGTTCATGAGTACA
35	45451 AAACATCCAGTACCATAGGTATTTTTTACCATTCCAGGTTCAGTACAGAG
	45501 TTGACCAAACAAGCTGCTTGCTGGTCTCCTAAAACTGCTCTAATTGGTA
	45551 CAATACCTTTAGCATTACTAGATCAGTGATTAGTTTCAATATCACCAAAG
40	45601 TAAGCATTGGAACTCAGAACTTTAGGTAAGATTGAAACTGGTACTTCAAA
	45651 TAAATCACATAACTCTTTGGATCACTCCATTTTGACAATGTCAAATAAAA
	45701 GAGTTCTTGAAGCATTTGAAACATCTGTAACATGCATTTTTCCATTAGTT
	45751 AGTTTTCAGATTAATCAGCTATCAATGGTGCCAAATAACAACTTTTTTTG
45	45801 CTCCATTAGTTTCTTTGCTAAAGGAACATTTTTTAAGATTCAAGCTATCT
	45851 TAGTAGCACTAAAATAGGGGTTAATAGGTAATCCAGTTTTTTGTTTTACT
	45901 TTGGTTTGGATTAACTTATCCTCATTGAATTTTTGACATAGTGCTGCAGT
50	45951 TCTTTGATCCTGTCAAACGATGGCATTATAAACAGGCAAACCATTTTCTT
	46001 TATTTCATAAAACTATTGTTTCTCTTTGATTGGTAATACCAACTGCAATC
	46051 ACTTCATGAGATTTGATTTGTGCTTTATTTTTAGCACTTTGCATGGTAGC

5	46101	${\tt TAGTTGGGCTGATCAAATTTCTAGTGGATCTTGTTCAACTCAACCACTAT}$
	46151	${\tt TAGGAAAAAAGTGTTAAATTCGTTTTGTGCTATTGCTATTTGGTTAAGA}$
	46201	$\tt TTGTGATCAAAAACAATTGATCGACAAGAACTAGTACCTTCATCTAAGGC$
	46251	${\tt AATAATGTATTGTTTTTTAGATCCATGATAAGTTGTAATTAGGATTTCA}$
	46301	${\tt ATTTATCTTCTTTTTAACTTTAAATTAAGGAGTTCAACTGCTCTCTTAG}$
10	46351	${\tt CAATAGCAGGACTTGATGTTAAACCAGGGGATTTCATGCCACCAAGGATG}$
	46401	${\tt ATAAAGTTAGGATTGCTTTTTGCTGTTCTAATAACAAAGTCATTTGTTTC}$
	46451	${\tt AATATCAATAGCTCTTGAACCTGCAAAACTATAAATACTATTTCAAATT}$
	46501	${\tt GCAATGAAGGAACCATTTTTTTACCAATAGTTTTAATTTGGTTAATTGAA}$
15	46551	${\tt TCTAAATCTATGGAACGAGTTTTGTTTTTTCAATTCCCTCAACTGCATT}$
	46601	${\tt AGGTCCCACAAGGATATTACCATCTAACATCTCAGCAACAACTACTCCCT}$
	46651	${\tt TACCATGGATAGTAGGTACCATAAAAATAATTGTGTTAATCTTAAGGTTG}$
20	46701	${\tt TTTTGATTTTTAAAACTAGATATTGTCCTTTTCTTGTTGTTTAAA}$
	46751	${\tt ATTATCAACTTGTGTAGTTTCTGCTAGTCAATCTGCATAATGACCAGCTG}$
	46801	${\tt CATCAATTAACTTTTTGGTTTTAAATTGTGGTGTTGTTTCATTGTTAATA}$
	46851	${\tt AAAACTAAAAAATCATCATCAGAATCTATTTCAATTTTTGTAACTTTTTT}$
25	46901	${\tt ATTTGAGTAGATGGCAACATTGTTTTGTAAACTAGCAAGGGCTAAACACT}$
	46951	${\tt TGGTTGCAATTAAAGGGTCAATTAGTCAACTACCTTCAACTTTTAAACTA}$
	47001	${\tt GCTACTACATTTGGATTGATAAACGGTTCTTGCAATAAAGTTTGTTGTTG}$
30	47051	${\tt ATCTAATATTTGAATGTTTTCAACAGGAATTGAGTTTTTAATTCCCCTTT}$
	47101	${\tt CTTTTAACAAATTTAATTGAAGTTTTTCTTCATTGTTGAAAGCAACAATT}$
	47151	${\tt AAAGTAGCAATTTTTTTCCTTGGGAAGATTAGTTTTTAAATCAATC$
	47201	${\tt AATTCAGATTTTCTCCCTAAGATGTTGTATTTGGCAGTTAGCTTATTAG}$
35	47251	${\tt GATTAGGATCAATTCCTGAATGGATTACACCACTGTTAGCCTGCGAAGTT}$
	47301	${\tt TCACAACCCAAAAAAGCATTTTTTTCTAAAAGTGCAACTTTTAATTTATA}$
	47351	${\tt TTGGCTGAGTTCATATGCACAACTAGTACCGATGACACCCCCACCCA$
40	47401	${\tt TTAAAACGTCAATTGTTTGCATTAATTAATCTTCTAGTATTTAGTTAG$
40	47451	${\tt ATTTTGCAAAAAAGGATTAGTTTTATAGTTGTGATTTACTTTTTGGTATC}$
	47501	${\tt TCTATAAAAAGTAGTATCAAACATTTTTTTATCTTTTGATTTCTTTTTAC}$
	47551	${\tt TAAAAATAATTAGCTAAAATACCGTCATATATGGGAAAGCTATTATTTGG}$
4 5	47601	${\tt TAAGTTAGTTTTTAAAAAGAGCTTGTTTTTACTGAGTGGTATGAGCAGTT}$
	47651	${\tt TAGCAGTTTTTTAACTGCATGTGGGGCTACCAAAATATTTGATTCCTCT}$
	47701	${\tt GTACAGCTATTAGTGTCAGATAACTTTTCCACACTTGCTGATAAATCATT}$
50	47751	${\tt TTCACAAATGTCCTATGAAGGAATCAGGAGCTTTTTTAAAAAAAGTAAGG}$
	47801	${\tt GTGTTGATTTACCTGAAGCAGATAGTTCACAATTACAAGAAGGCAATGGC}$
	47851	${\tt TTGTGAAAACGTCCTGGTTTTACATTAAGTGATAGAATTGCTACTTTTAA}$

4	7901 '	TAACATCAAAAATGATGGCTCTGATGTTATTGTTGCAACAGGTTTTAACC
4	7951	AACAAGAATCACTTCAAGCAATTACTTCTGATGACATTAGGTTTCAAAGT
5 4	8001	GATAAAGAAAGCTTAGCTAAAACAGGTTTTATTTTTGTTGATGGAGCTAT
4	8051	TGAAAAGGAGTTTAATAAAAGAAATGGTGTTCCTCAATTTAAGTCAACTC
4	8101	CTACCAATATCTCATCAGTTGCTTTTAGAAGTGATGATGGTTCTTTTTTA
10 4	8151	ACTGGAGTTGCTACTGCAGTTTACTTAAATCTTAACCAAGAATATTTCCT
4	8201	TGATAAAAGTGGTTGGTCAACTAATAGTAGTAATAATAACGAACTAACT
4	8251	TAAGTGGTTTTGTAGGTATTGCTCTACCTTCAACGCTTTCTTT
4	8301	GGTTTTCGACTAGGTATTGCTTATTTTAATGAAGTGATTTATAAACATTT
15 4	8351	AAGCGATGCACAAGATTCATCTGCACAAGTGACCACTTCTAAACAAAC
4	8401	TTTTAAAACAACTTCAAGTTGCAAATGGTGAAAAAAGGATTAAAAAGATT
4	8451	AAATGGATTTCACCAAAACAAGGAAGTGATGGAGAAACTATAAACATTCA
20	8501	AGATCACCAATCAGGTTCTTTTTCAGATACTGAACCTAGAGCAATAACAA
4	8551	TAGCTAATAATTTAATTGATAAAGGAGTTAATGCTATCATTCCTATTGCT
4	8601	GGACCACAAACGAATTTAGTGGTTACTCAAATTGCTAGAAGACAAGCCCA
		TACTGCAGTTATTGGCGTTGATAGTGCACAGGAATTGCTAGATATTAATA
		TTGATGCTCCAAATAAAGATAAGTTAAAAAATGGGGAATAAAAAGATTATT
		CCCTTCTCTTCTATTAAGGCTTTGGATGTTGCTGTTGAAAGTATCTTATC
		AACATTAGAAAAAGGTTCCAGCCAAAATGGTTATCAAGGCTTTGGATATA
0.0		ACAACATAGGTACAGTGAAAAACAACTCTGTTGGGGTTAGTGAAGCAGGT
4		TATGAATTTTTAATAGATCCTGTTTTTTGAAAAAATACTAGTTCAATGCA
		AGCTATGTCTTTATCAGCAAGTCTAAAAGCTAATGCAGCATCTTCATCAG
		ATAATAAGAAAAATTATCAGAAGTTGCTACTAAGAAAAATGAAAACGGT
		TCGACAAAAATGGTAGTAATGACATCATTGACAAATATGCCAAACTCTT
		AACAAAATCTAGTTCTTCAACTAGTATGAGAAACGGTAGTTCAGATAGCA
		ATCAACAGAATTTTAAAACAACAGATAATGATGGTGATTGAACTATTGTT
40		GGTGATGAATTAGGTAAATATAAGTCTAGTGAACTGCCTATTTTTACAGG
		TAGTTCTTCATACCCAACTTTTCAAACTGAAGCACAAAATGTTTTAGATG
		GTGGAGCGAATGTTGCTTCAACACAAGGCTTTAAATGAAGCTTTAAACAA
		ATTTAGAATTTTGATTACTTAAAGATATGAAAAAATTTCAAGCAGTTATT
40		AAAGACCCAGTGGGAATTCACGCACGTCCTGCTTCTATCCTTGCAAGTGA
		GGCTAGTAAGTTTAAATCTGAACTTAAACTGGTAGCTCCAAGTGGTGTTG
		AAGGTAATATTAAATCAATTATTAACTTAATGTCTTTAGGAATTAGACAT
		AATGACAACATTACTATCAAAGCAGATGGAGCTGATGAAGAAGAAGCTTT
		AGCAGCTATTAAAGCTTGTCTTGAAAAAAAAAAGTTATCTAACTTAGCA
	49651	TATTTTAATCAATTAAATCTGTTTATTTTTTAATAGTAAAAACACAATTT

	49701	${\tt AACCTTGTTTCTATTTAACAAAATTGGTTTGAAAAAGGCTATCAATTTTG}$
10	49751	${\tt CTGTAAAAAATTAAGATATTTTTTATCAAAAATTAGCATAAAAAATTGTT}$
	49801	${\tt ATACTAATTAACGTTTTTTTTTGAAAATTAAGTATTTAAATTGAACGAAC$
	49851	${\tt ATTCTTTAATTGAAATTGAAGGTTTGAACAAGACCTTTGATGATGGTTAT}$
	49901	${\tt GTTTCTATAAGAGACATTAGCCTAAATATTAAAAAAGGCGAATTTATTAC}$
	49951	${\tt TATTTTAGGCCCTTCTGGTTGTGGTAAAACTACCCTGTTGAGGTTATTAG}$
	50001	${\tt CTGGATTTGAAGATCCTACTTATGGCAAGATCAAAGTTAATGGTATTGAC}$
	50051	${\tt ATTAAAGACATGGCAATCCATAAGCGTCCTTTTGCGACAGTTTTTCAAGA}$
	50101	$\tt CTATGCTTTATTTTCCCATCTAACTGTTTATAAAAACATTGCTTATGGTC$
15	50151	${\tt TGAAGGTAATGTGAACAAAGTTAGATGAAATTCCAAAACTTGTAAGTGAT}$
	50201	${\tt TATCAAAAGCAACTTGCTCTTAAGCATTTAAAGCTAGAAAAAAAA$
	50251	${\tt GCAGTTACAAAAAAACAATTCTAATGCTCAAAGAATAAAGAAATTAAAGG}$
20	50301	${\tt AAAAATTACAAAAACTTTTAGAAATTAACAAACAAAAAGTTATTGAGTTT}$
	50351	${\tt GAAAATAAAGAAAAACTACGTAGAGAAGAATTTACAAGAATTTAGAGCA}$
	50401	${\tt ATTAACAAAAGAATGGGATCTACTTTCTCAAAAGAAACTAAAAGAAGTTG}$
	50451	${\tt AACAACAAAAACAAGCAATTGATAAAAGTTTTGAAAAAGTAGAGAATAAA}$
25	50501	${\tt TACAAAAAAGATCCTTGGTTTTTTCAACACAGTGAAATACGTTTAAAACA}$
	50551	${\tt ATATCAGAAGAAAAAACTGAGTTGAAAGCTGATATTAAAGCAACAAAGA}$
	50601	${\tt ACAAAGAACAAATCCAAAAATTAACTAAAGAACTTCAAACCTTAAAACAA}$
30	50651	${\tt AAATACGCTAATAAAAAAGCAATTGACAAAGGGTATGACAAATTAGTTGT}$
30	50701	${\tt AGCTTACAATAAGAAAGACTATTGAACTTCTTATTGAGAAACATACACAC}$
	50751	${\tt TTCAACAAAAAGAAGCTTTTGAAAAACGTTATCTTTCAAGAAAACTAACT$
	50801	${\tt AAAGCTGAACAAAATAAAAAAGTTAGTGATGTTATTGAAATGGTTGGT$
35	50851	${\tt AAAAGGTAAAGAAGATCGTTTGCCTGATGAATTATCAGGGGGAATGAAAC}$
	50901	${\tt AAAGAGTTGCTTTAGCACGTTCTTTAGTAGTAGAACCTGAAATTCTTTTA}$
	50951	${\tt TTAGATGAACCATTATCTGCACTTGATGCAAAGGTTAGAAAGAA$
40	51001	${\tt AAAAGAATTACAACAGATTCATAAAAAAAGTGGATTGACTTTTATCTTAG}$
40	51051	${\tt TAACTCATGATCAAGAAGAGGGCTTTAGTTTATCAGATCGGATAGTGGTT}$
	51101	${\tt ATGAATGAGGGAAACATCTTACAAGTTGGTAATCCTGTTGATATTTATGA}$
	51151	$\tt CTCTCCTAAGACTGAATGAATTGCTAATTTCATTGGTCAAGCTAACATCT$
4 5	51201	${\tt TTAAAGGTACTTATTTAGGAGAAAAAAAGATTCAGTTACAGAGTGGTGAA}$
	51251	${\tt ATCATTCAAACTGATGTTGATAATAACTATGTTGTAGGTAAGCAATATAA}$
	51301	${\tt GATCTTAATTCGTCCTGAAGACTTTGATCTTGTTCCTGAAAATAAAGGTT}$
50	51351	${\tt TTTTAATGTTCGTGTTATTGATAAAAACTACAAAGGATTGCTTTGAAAG}$
50	51401	${\tt ATAACCACACTATTAAAAGATAACACTATTGTTGATTTGGAGAGTGTTAA}$
	51451	${\tt TGAAGTTGATGTAAATAAGACCTTTGGTGTTTTATTTGATCCTATAGATG}$

	51501 TTCATTTAATGGAAGTTTAACAAGATGCACATTAAGAAAAAATACTGACT
	51551 TCTGCTCCCCTTCTTTTATTAATGACAATCTTCTTTATTATTCCAATGG
	51601 CATGGATTATTGTTAGTGGATTACAAAGTGAAGATGGGGCTAGTATTAGT
	51651 CAAAAATATGAACCACTTGTTAGTGGCTTAGGTTTTTTTAACAGTTTCTG
	51701 AACCAGTTTGTGGATCTCAATAGTGACTGTAATTGTTGCATTGTTTTT
0	51751 CTTTTCCTTTTGTTACTTTCTCTCCCAATCAAAAAACAAAATTTTTAAA
	51801 GCGTTTGTTATTTCAATTGCAACAGTTCCTATTTGAAGTAGTTTTCTTAT
	51851 TAAGTTAATTGGATTGAAAACCCTACTTGATTTATTAATTGGACTTTCTT
	51901 TAAACAGAGTTGGTGATAACAACTTAACTTTTGGTTCAGGATATACCTTA
5	51951 CTTGGAACAATTTATCTGTTTACTCCTTTTATGTTTTTACCACTTTATAA
	52001 CCACTTCTGTGTTTTACCTAAAAACTTGTTGTTAGCTAGTCAAGATTTGG
	52051 GTTATAACTGGATTTACAGCTTTGTGAAAGTAGTAATTCCTTTTTCTAAA
20	52101 ACCGCAATGTTATCAGGAATTGCTTTAACTTTTTCCCTGCTTTAACTTC
•	52151 AGTTGCAATTGCTCAGTTTTTAGATAACTCTAACCAAGCCGAAACCCTTG
	52201 GTAACTACATATTTACCTTGGGTAATAATGGTTATGATAGTGCAATTGAA
	52251 AGAGGCAGAGCTGCTGGAGCAATTATTATTGCTGCTTTAATTACTTTTGC
25	52301 AATTTACTTTACTGTTGTTTTTTTGCCTAAAATTGTCCGTATTGTTCATA
	52351 ACAAATGAAAACAACATGAAAAAGCATTTTAAGAATTTAATTAA
	52401 TTATTTCTTTCTGTTAATAACTTTAATCTATTTACCACTTTTAATAGTTG
30	52451 TACTTGTTAGTTTAAACGGTTCTTCTTCAAGAGGAAATATAGTGCTTGAT
	52501 TTTGGTAATGTTTTAAATCCTAATCCTGATTCTAAATCTGCTTATTTAAG
	52551 ATTAGGTGAAACTGATTTTGCAACACCACTAATAAATTCAATCATTATAG
	52601 GTGTGATCACTGTTTTAGTGTCTGTTCCTATTGCTGTTATCAGTGCGTTT
35	52651 GCGCTTTTAAGAACAAGGAATGCTTTAAAAAAGACAATCTTTGGAATTAC
	52701 TAATTTTTCTTTAGCAACTCCTGATATTACTACTGCTATCTCTTTAGTGT
	52751 TGTTATTTGCTAACACTTGATTAAGTTTTAACCAGCAGTTAGGTTTTTTT
40	52801 ACCATTATTACTTCCCATATCTCTTTTTCAGTGCCTTATGCATTGATTTT
70	52851 GATTTACCCTAAAATTCAAAAATTGAATCCTAATTTAATTCTTGCTTCTC
	52901 AAGATTTAGGCTATTCGCCTTTAAAAACTTTTTTCCATATTACTCTACCT
4 5	52951 TATCTAATGCCAAGTATTTTTTCAGCAGTACTAGTAGTATTTGCAACTAG
	53001 TTTTGATGATTATGTAATTACCTCTTTAGTACAAGGATCAGTAAAAACTA
	53051 TAGCAACTGAACTCTATTCATTTAGAAAAGGAATTAAAGCATGGGCAATC
	53101 GCCTTTGGGTCTATTCTCATATTGATTAGTGTCTTAGGAGTCTGTTTAAT
50	53151 AACCCTGCAAAAGTATTTAAGGGAAAAAAGAAAGGAAATAATCAAAATAA
	53201 GACAATGAAAAACAGTTAAAATATTGCTTTTTCTCACTTTTTGTTAGTC
	53251 TCTCATCAATATTGAGTAGTTGTGGTTCAACAACATTTGTACTAGCTAA

53301	TTTGAATCTTATATTTCGCCCTTATTGCTAGAAAGAGTACAAGAAAAACA
53351	${\tt TCCCTTAACTTTCTTGACTTATCCTAGTAATGAAAAACTAATTAAT$
53401	${\tt TTGCTAACAACACTTATTCAGTAGCAGTAGCATCTACTTATGCAGTTAGT}$
53451	${\tt GAATTGATAGAAAGGGATCTATTATCACCAATAGATTGAAGTCAGTTTAA}$
53501	TCTGAAAAAAGTAGTAGTTCAAGTGATAAAGTAAATAATGCCAGTGATG
53551	${\tt CAAAGGATTTGTTTATTGATTCAATTAAAGAGATCAGTCAACAAACCAAA}$
53601	${\tt GATAGTAAAAACAATGAATTACTGCATTGAGCAGTTCCTTATTTTCTTCA}$
53651	${\tt AAACTTAGTGTTTATCGTGGTGAAAAAATTAGTGAACTTGAACAGG}$
53701	${\tt AAAATGTTTCATGAACTGATGTAATTAAAGCAATTGTGAAACACAAAGAT}$
53751	${\tt CGCTTTAATGACAATAGGTTAGTTTTCATTGATGATGCTAGAACGATCTT}$
53801	${\tt TTCACTTGCTAACATCGTTAATACTAACAACAATTCAGCTGATGTTAATC}$
53851	${\tt CAAAGGAAGATGGAATTGGTTATTTCACTAATGTCTATGAAAGCTTTCAA}$
53901	${\tt AGACTTGGATTAACAAAATCTAATTTAGATAGTATCTTTGTTAATTCTGA}$
53951	${\tt TTCCAATATTGTGATCAATGAATTGGCAAGTGGTAGAAGACAAGGAGGAA}$
54001	${\tt TTGTTTACAATGGTGATGCAGTGTATGCTGCATTGGGCGGTGATTTACGT}$
54051	${\tt GATGAATTGAGTGAAGAACAGATTCCTGATGGGAACAACTTTCACATTGT}$
54101	${\tt GCAACCCAAAATTTCCCCAGTTGCTTTAGATCTTTTGGTTATCAATAAAC}$
54151	${\tt AACAATCTAATTTCAAAAAGAAGCACATGAGATCATTTTTGATCTTGCT}$
54201	${\tt TTGGATGGTGCTGATCAAACTAAAGAACAGTTAATTAAAACTGATGAAGA}$
54251	${\tt ATTGGGTACTGATGATGAAGACTTTTACTTAAAAGGAGCGATGCAAAACT}$
54301	${\tt TTAGTTATGTGAACTATGTTTCACCATTAAAAGTAATATCTGATCCAAGT}$
54351	ACTGGAATAGTCAGTTCCAAAAAGAATAATGCTGAAATGAAAAGTAAACA
54401	AATGTCAACTGATCAAATGACTAGTGAAAAAGAATTTGATTATTACACTG
54451	AAACACTTAAAGCATTATTAGAGAAAGAAGATAGTGCAGAATTAAATGAA
54501	AATGAAAAAACTAGTTGAAACCATTAAGAAAGCTTACACTATTGAAAA
54551	AGATAGTTCAATTCGGTGAAACCAATTGGTCGAAAAACCAATTTCTCCCT
54601	TACAACGTAGTAATTTATCGTTATCTTGATTAGACTTTAAATTACACTGG
54651	TGATAATATGGAACAACCGTTGTGTGTTTTAGGGATTGAAACAACCTGTG
54701	ATGATACAGGTCTTAGTATTGTCATTGATCAAAAAATCAAGAGTAACATT
54751	GTTATCTCTTCTGCTAACTTACATGTAAAAACAGGAGGAGTTGTACCTGA
54801	AATTGCAGCACGATGCCACGAACAAAATCTCTTTAAAGCAATAAGAGATT
54851	TAAATTTTGAGATAAGAGATTTATCTCACATTGCTTATGCATGTAATCCT
54901	GGGTTAGCAGGATGTTTACATGTGGGAGCCACTTTTGCTAGAAGCTTAAG
54951	${\tt TTTCTTATTAGACAAACCATTGTTACCCATCAACCATCTTTATGCGCATA}$
55001	TCTTTTCTTGTTTAATTGATCAAGATTTAAATAAGCTGCAATTACCAGCA
55051	${\tt TTAGGCCTTGTAATTTCAGGTGGACATACTGCCATTTATCTAGTTAAATC}$
	53351 53401 53451 53501 53551 53601 53751 53751 53801 53901 53951 54001 54151 54251 54251 54251 54251 54251 54251 54251 54351 54351 54351 54401 54551 54501 5451 54501 5451 54601 54701 54751 54851 54851 54851 54851 54851 54901 54951 55001

	55101 ATTTTATGAACTTGAACTAATTGCTGAAACTAGTGATGATGCAATTGGTG
	55151 AAGTTTATGACAAGATAGGCAGAGCAATGGGCTTTGATTATCCTGCTGGT
	55151 AAGTITATGACAAGATAGGCAGAGCATTAGGTAAACCTCACTATTT 55201 AGTAAAATTGATAGTCTTTTTAATAAAGAATTAGTTAAACCTCACTATTT
	55201 AGTAAAATTGATAGTCTTTTTAATAGTTTTCCTATTCTGGTTTAAAAT 55251 CTTTAAACCTTCTACTAAGTGAACTAAGTTTTCCTATTCTGGTTTAAAAT
	55301 CTCAGTGTTTAAACAAGATTAAACAAATAAGTGCTAATAAAACCCGAATT
0	55351 GATTGGAGTGAATTAGCATCCAATTTTCAAGCTACTATTATTGATCATTA
	55401 CATTGATCATGTTAAAAATGCAATTAAAAAATTTGCCCCTAAAATGTTGT
	55451 TAGTAGGAGGTGGAGTTAGTGCCAATTCTTATCTATCTAACAGAATTAGT
	55501 ACATTAAATTTACCCTTTTTAATTGCTGATAGCAAATACACCAGTGATAA
5	55551 TGGAGCAATGATTGGTTTTTATGCATCACTTTTAATTAAT
	55601 ATTAAAAGTACAAGAGTTGGTAGATTTGTTTCTGAATCAGTGGGATTAGG
	55651 TCATCCTGATAAAATTTGTGATCAGATTGCAGATAGTATCTTAGACCAAT
	55701 GTTTACTACAGAGTAAAACTAGTCATGTAGCATGTGAAGTCTTTGCTTCT
20	55751 AAAAACCTTATTTTAATAGGTGGTGAGATTTCAACAAGTGGCTATGTTGA
	55801 TGTTGTTCAAACTGCTTGAAGAATTTTAAGAAATTTAGGTTACAACGAGA
	55851 CTGATTTCAGTTTTTTAAGCTGTATCAACAACCAATCACTAGAAATTAAT
25	55901 CAAGCAGTTTTAAAAAATAATGAGATTAATGCAGGAGATCAAGGCATTAC
	55951 TGTTGGTTATGCAGTGAATGAAACAAAGCAACTAATGCCTTTAGGAGTTT
	56001 TACTAGCACACTCGTTTTTAAAACAAGCAGAAAAACTAACAAAACAATTT
	56051 GATTTTTAAAAAATGATATGAAAAGTCAAGTGGTTTTAAACTACAGTTT
30	56101 AAACCAAGTTGAATGTGAAGAAGTTTTACTATCAATTCAACACACTAATG
	56151 CTATTAGTTTAACAGAATTGAGAAAAGTGATTGAAAATAATGTAATTCTA
	56201 CCTGTTTTAAACCAATATGGTTTTCAAGATAAAAAGCCAACTTGTTTAGT
35	56251 GAATCCTGGTGGTTCTTTTGTTTTAGGTGGACCTATGGCAGATACTGGAC
33	56301 TAACTGGTAGAAAAATCATTGTTGACACCTATGGTCCATATGCTCACCAT
	56351 GGTGGTGGTAGCTTTAGTGGCAAAGATCCTAGTAAGGTGGATAGAACAGG
	56401 TGCTTATTTTGCACGTTTTATCGCAAAACATATTGTAAGTTTAGGCTGGG
40	56451 CCAGTGAGTGTGAAGTCAGTATTAGCTGAGTCTTTTCAAAACCCAATCCA
	56501 CAATCTATTACTGTTAAGTGTTTTAACACTAACATACAGTATGAAGT
	56551 GTTAATTAATAGAGTTGTAAATAACTATTTCAACTGATCGATTACTAAAA
4 5	56601 TTATTGACAAGCTAAAATTACTTGATTTTGTTAAGTATTCTGATTATGCA
	56651 GTTTATGGACATTTTGGTAATGATCTTTCACCATGAGAACAGCCCACTGA
	56701 ATTGGATAAATTAGAATGCTTAATCAAAAATTTCCATTAGATCCTAATAA
	56751 AAAAAAGGAACAACAAGGCGTAGTAAAACCAAATCTACCGGTTGTTAAAG
50	56751 AAAAAAGGAACAAGAGGCGTAGTAGTAGGGGTGAATTTAAGCTG
	56801 AAAAGAAAAACAGCCATTTAAAAACCAAATTGGTTGTTATTAGCTTT
	56851 TTCAACTITITITAAAAAGCACACTIATTITIGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTT

	56901	${\tt TCTTATCTTGATTATTTTACTTAGCAGCTTATTTGCTATTCCACTTAGCC}$
	56951	${\tt AAATACCTTCAAGTACTGTTTAAAAGAATTGTCCAAATCCACCAAACGGG}$
5	57001	${\tt TTACTACCTGTTTTTAATAGTTTACCCATTTCTGTTGCTTTTAGTTGCAT$
	57051	${\tt CTTATTTCATTCATCAGTTTGTTTAACTCATCCATTTTTCTCCCTG}$
	57101	${\tt AACCTTTTATGATGCGCTGTTTTCTATTAGGATCACGATTAATTTATTT$
10	57151	${\tt GGATGTCTCCTTTCTTCTAGTCATAGAGTTAATTAAAACCTTTCATAG}$
10	57201	${\tt TTCAATTTGTTTTCAATTAATTCAGCATTTTCTTGATACAGAAAAGT}$
	57251	${\tt TAGCAGGCAACATTTTTATCAGTGaACTGACACTTCCCATTTTGTGCATT}$
	57301	${\tt TGTTGCATGTAGATCAAAAGATCTTCTAAATCCATTTTTCCCAAAAACAT}$
15	57351	${\tt CTTGCTGATGGTTTAGTTAAATCTTTTTTATCAAAAACTTGTTCAGCTT}$
	57401	${\tt TTTCAACTAAACTCATTACATCACCCAAACCTAAGATCCGATTGGCTATC}$
	57451	${\tt CTTTCAGGATGAAATTGTTCCAATCCATCTAATTTTTCAGAAACACCCAAT}$
	57501	${\tt TAATTTAATGGGTACTTGTAAAAGTGAAGCTAATGAAAGTGCAGCTCCTG}$
20	57551	$\tt CTCTAGCATCACTGTCTAATTTACTGATAATAAATCCAGTTAGTT$
	57601	${\tt CGTTTGTGGAACGTTTGAGCAACATTGATAATTTCCTGACCGCTTAATCC}$
	57651	${\tt ATCTACTACCATGATAATTTCATCAGGATTTAATTCATTTTTAACACTTA}$
25	57701	${\tt CCAATTCATCCATTAATGTTTCATTTGTTAATCTACCAGCGGTATCA}$
	57751	${\tt CAAATGATTGTTTGACATTTTGCAGTTTTAAAAGCACTGAGTGCTGCTTT}$
	57801	${\tt TGTTGTTTTAGCAACTGGTTGAGTGCCTTGTGCAAAAAATACGCTGTTAG}$
	57851	${\tt TTTGTTGTGAAAGCGTTTCAAGTTGTTCAATGGCAGCGGGTCTGTAGATG}$
30	57901	${\tt TCCAAGCCTACTAACATTGTTTTTTGCTTGTATTTCTTTTCAAGTCAATA}$
	57951	${\tt AGCTAGTTTGCCACAAGTTGTTGTTTTACCTGATCCTTGTAAACCAACC$
	58001	${\tt TCATTATTTTAAAGGTCTTTTTTCATTTAGTTCTTGGTTGG$
35	58051	${\tt AAGATATTAATTAGTTCTGTTTTGATTGTTTTTAATAGAGACTTTTGCAA}$
	58101	${\tt ATCTTGACCAGGTTCAATGGTTTGTCCTACTGTTTTATCTCTAATTGCTT}$
	58151	TGATGAAATTTTTAACAACAAGCAGGTTAACATCAGCATCAAGCAATGCA
	58201	ATTCTAATCTCTTTTAGAACTAACTCTACATCTTTCTCAGTGATCGTTTG
4 0	58251	${\tt AGCGTTAATTTTTTTTGCATCGTGCGCATAACGATGCTTGATAACATTG}$
	58301	$\tt CTTTGAACATGATTTTTAATTATTTATTAAATAATAATGTTTTAATAA$
	58351	CAATATTGCAATATGACCCCACATATAAGTGCTAAGAAAGA
45	58401	CAAAGTTGTTTTAATGCCAGGTGATCCATTGAGAGCTAAATGGATAGCTG
	58451	AGCAATTCTTAGATCAAGCTAAATTAGTCAATGAAGTGAGGGGAATGTTT
	58501	GCTTATACTGGGCAGTATAAATCTAAAACAGTTACAGTAATGGGCCATGG
	58551	${\tt AATGGGGATCCCTTCTATTGGAATTTATTCATATGAGTTGATGAATTTTT}$
50	58601	${\tt ATGAGGTTGAAACTATCATTAGAATCGGAAGTTGTGGTGCTTTAGCACCG}$
	58651	CAATTAAAATTAAAAGATCTTGTTATTGCTTCAAAAGCATGAAGTGAGTC

58701	TATTTATGCTAAAGACATGGGTGTTGAAATTCCAGAAGATAAGATCTTAT
58751	${\tt TTGCAACAAGTTCTTTAGTGGAATTAGCAAAAGAAACTGCGATTAAGAAC}$
5 58801	AAGCTTGATTTTCATGAAGGATTAGTATTTTGTGAGGATGCTTTTTATCA
58851	AACTAGAAAAGATGTAATTAGTCTTGCTAAAGAAAAAAAA
	TTGAAATGGAAGCACATGCACTTTATGCTAATGCAATCCTGTTGAAGAAA
10 58951	AAAGCACTTACACTCTTAACAGTATCTGATTCTCTAGTAACTCATGAAGC
	ACTTAGTTCTGAATTAAGACAAAAGTCATTTAAGCAAATGGCTTTATTAG
	CACTTGAAATGACTCAAAAACTAATCTAATCTATGAAATTAGAATACAAC
	CGGATTATTGATAGCACCTTAGTCAAAGCTGATACGCTTCCCCATGAAAT
	AGATACTTTATGTGCTGATGCTCATAAATACCAGTTTTTTGCAGTGTGTG
	TTAATCCTAGTTATGTTAGTTATGCTAAAAACATCTTGAAAAAATACTGCA
	GTTCAACTCTGTTGTTGTTGGTTTCCCCTTAGGACAAACAA
20	ACAGAAGGTATATGAAGCTAAGATTGCTATTAAAGAGGGAGCGGATGAAA
59351	TTGATATGGTAATGAATATTGCTGAGTTTAAAAAACGTTGTGCTTGTGTT
	ATTACTGAAATTAGAGCTGTTAAAAAAGTGTGTGGCAAGCGTAAATTAAA
	AGTAATTATTGAAACTGCACTTTTAACAAATGATGAAATCAAAGATGCAG
	TTAATGTTTGCATTGATGGCAATGCAGATTATGTTAAAACTTCCACTGGT
	TTTTCTTTCCGTGGTGCATCTTTAGAAGATGTTCAGATTATGAATAATGC
	TGCAGCAAATTTAATTAAAATCAAAGCTTCAGGTGGGATTAAAACAGCAA
30	AGCAATTTATAGATTTATTTCAAGCTGGAGCTAGTAGAATTGGAACTTCA
59701	AATGCGGTCCAAATAATGCAAGAATTAAAAAAAATGAACCATGAATATCA
	TTAATTTAATTAATAAAAAACAACGCGGAAAAGCTTTAAATTTAGCTGAA
	L ATCAATTGGTTTGTTAATGCTGTTTTAAACAAAACCATTGCTGATTATCA
	L AATTACTGCATTTTTGATGGCTATTTGGTTTAAAGGGATGAACCCAAATG
	L AACTTTTTTTATTAACAAAAGCAATGGTGGATACTGGTGAAATTATTAAG
	TTTAATCACCATGGCAAGATTAGTGTTGATAAACATTCAACTGGTGGTAT
40	1 TGGTGATAAGGTTTCTTTAGCATTGGTTCCTATCTTAACTAGTTTAGGAT
6005	1 TTAGTGTTGCTAAATTATCAGGAAGAGGCCTTGGTTATACTGGTGGAACA
	1 ATTGATAAATTAGAAGCAGTTGGAGTTAAAACAGAATTAACTGACCAACA
	1 AGCACAAGCATGTTTAGATAAAAATGATTGTTTTATCATCGGACAAAGTA
	1 AGGACATCGCACCAGTTGATAAAGTACTTTATGGTTTAAGAGATATTACT
	1 GGAACAGTTGATAGTTTGCCTTTAATTGCATCTAGTATTATGTCTAAAA
	1 GCTAGCAGTTATGAACGAGTATATTTTCATTGATCTTAAATATGGAAAAC
50	1 GTGCCTTTTGTAAAACTAAGAAAATTGCTAACGAACTTGCAAAACTGATC
	1 CAAAGTATTGCTAAAAGTTTTAAAAGAAAGCTGTCTGTTAAATTAAGTGA
6045	1 TATGAATCAAGTACTTGGTAAAGCTGTTGGCAATGTAATTGAAGTTAATC

	60501	${\tt AAGCTGTTAACTTTCTAAAACAAGATTTAGATCAAGTAGGACAAGATTTT}$
_	60551	${\tt ATTGATTTAATGCAAACAATTGTTATTAACATTCTACTTGAAACAAAACA}$
5	60601	${\tt AGCAAAAACCAAAAAGGCTATTGAACTTTATCAGGATGTTTTAACTA}$
	60651	${\tt GTAAAAAAGCATGAAATCGCTTTTTATCTTTTATTGAATCTCAAGGAGGA}$
	60701	${\tt AATGTTGAATTATTTACTCAAAAAGAAGGTTTTTTTAAACCTAAGTATAA}$
10	60751	${\tt GGCATCTATAAAAGCTGAAAAAAGTGGTATACTACATTTTACTGATCCAA}$
	60801	${\tt TTGATTTAGCTAAAATTGGGATTAATCTAGGGGCAGGTAGGATGAAGAAA}$
	60851	${\tt ACAGATCAAATTGATCCAATGGCAGGGTTATTTTAATGAAAAAAGATAA}$
	60901	${\tt TGAGTCTGTGGCAGTTGGAGACACTGTATTAAACCTGTATAGTTCTAGTC}$
15	60951	$\tt CTATTAGCAATGAATATCTCTGCTGCTCAAAAAACAATAATTATTAAT$
	61001	${\tt AAATAAAAATTCCTATGAAGGTGAATTTAGAGTGGATAATTAAACAGTTA}$
	61051	${\tt CAAATGATAGTTAAAAGAGCATATACTCCCTTTTCTAACTTTAAAGTTGC}$
20	61101	${\tt ATGTATGATTATTGCTAACAACCAAACTTTTTTTGGAGTTAACATTGAAA}$
	61151	${\tt ATTCTTCCTTTCCAGTAACTTTGTGTGCTGAAAGAAGCGCCATTGCTAGC}$
	61201	${\tt ATGGTTACAAGTGGTCATAGGAAAATTGATTATGTTTTGTTTACTTCAA}$
	61251	${\tt TACTAAAAATAAGAGTAACTCACCCTGTGGAATGTGCAGACAAAACTTAC}$
25	61301	${\tt TGGAATTTTCCCATCAAAAAACAAAGCTTTTTTGTATTGATAATGATAGT}$
	61351	${\tt AGTTATAAACAATTTTCCATTGATGAATTATTAATGAATG$
	61401	${\tt GAGCTAATGGATAAACTTAGATTAGAAGTTGAAAGATGGTTAAATCATCC}$
30	61451	${\tt TAATGTTAATTGGGAGTTAAAACAACAAATTAAGGAGTTGAATGAA$
	61501	${\tt AAATTCAAGAACTTTTTAGTTTGGAAAAACCTTTATTTGGCACTGCAGGT}$
	61551	${\tt GTAAGAAACAAAATGGCACCAGGTTATCATGGTATGAATGTTTTTCTTA}$
	61601	${\tt TGCCTATTTGACCCAAGGTTATGTTAAGTACATTGAATCCATCAATGAAC}$
35	61651	${\tt CAAAGCGTCAACTACGGTTTTTAGTAGCACGTGATACAAGAAAAAATGGT}$
	61701	${\tt GGTTTATTTTAGAAACGGTTTGTGATGTAATTACATCTATGGGTCATTT}$
	61751	${\tt GGCTTATGTTTTGATGATAACCAGCCAGTTTCAACACCTCTAGTGTCCC}$
40	61801	${\tt ATGTCATTTTAAATATGGTTTTAGTGGAGGTATTAATATCACAGCTAGC}$
	61851	${\tt CATAACCCTAAAGATGATAATGGTTTTAAGGTTTATGATCATACTGGTGC}$
	61901	${\tt ACAGCTTTAGACACACACAAACCAATTGTTAAGTGATTTACCTTGTG}$
45	61951	TTACATCTATGCTAGATTTGGAATTACAACCAAATCCAAAGTTTGTCCAT
	62001	${\tt ACTCTTGACAATGAAAAGGTTTATAAAAACTATTTCAGAGAGTTGAAAAA}$
	62051	${\tt GGTGTTGGTTATTAACAACAACAATTTCAAAGACATTAAGGTAGTTTTTA}$
	62101	$\tt GTGGGCTTAATGGGACTTCAGTTTGCTTAATGCAACGCTTTTTAAAGTAC$
50	62151	$\tt CTTGGTTATAGCAATATTATCAGTGTTGAGGAACAAAATTGGTTTGATGA$
30	62201	${\tt GAATTTGAAAATGCTCCTAACTTAAATCCAGAGTATAAAGATACATGGA}$
	62251	${\tt TATTAGCACAAAAATATGCTAAGAAAAATAATGCTAAGTTAATTATTATG}$

		62301	GCAGACCCTGATGCTGATAGATTTGCAATTGCAGAGTTAAATAATAATCA
		62351	ATGACATTATTTTCAGGTAATGAAACAGGAGCAATTACTGCTTACTATA
5	5	62401	AACTTAATCATAAGGTTTTTAAATCACCTTACATTGTCTCAACTTTTGTC
		62451	TCAACTTATTTGGTAAATAAGATTGCTAAAAGATATGGCGCTTTTGTGCA
		62501	TAGAACCAATGTTGGTTTAAGTACATTGGTCAAGCAATTAATGAGTTAT
	10	62551	CACAAACAAACGAATTAGTTGTTGGTTTTGAAGAGGCAATTGGTTTAATA
	10	62601	ACTAGTGATAAATTAAACCGCGAGAAAGATGCTTATCAAGCTGCTGCATT
		62651	ATTGCTTGAGATTGCTAGACATTGCAAAGAACAAACATCACGCTTTTAG
		62701	ATTTTTATAAAAGAATTCTTTCTGAGTTTGGTGAATATTTCAATTTAACA
	15	62751	ATATCTCATCCCTTTAAAGCTACTGCTACTGATTGAAAAGAAGAGATTAA
		62801	AGCTTTATTTAATCAACTTATAAATGCTAATTTAACTGAAGTGGCTGGTT
		62851	TTAAAGTAGTTAAAGTCCATCTTGATAAACAAACAAATATCTTAGAGTTT
	00		GGTTTTGAAAATGGCTGGGTTAAATTCCGCTTTTCAGGTACTGAACCTAA
	20		ATTGAAATTTTACTTTGACCTAACTAATGGCACTAGAGAGGCTCTAGAAA
			AGCAAGCTAAGAAAATTTATAAATTCTTTGTAAATTTACTCAAACTCAAC
			AAAGCTTAAATTTTCTAAAGGTAAGTTAATTAATTGGGTTTTAGATGTTA
	25		ATTCTATCTCTACAACTGCTTTGTTAACTGTACCTTGATAAAGTGCTTTT
			ATCTGTCCTTGAACATGAATAGTATCAGTTAAATGTACCTCTACTAAATT
			ACCAACACTAAATTCAAAGAGTTGTTCAACTTTATTGTCAGTATCAAGAA
	30		TTTCATATTTGCCCAAAAAAGGAACTAATACTGATGGATCAAGTTTGGTT
	30		TGCTCACTTTGAATAATCGTTGCTTTTTCTTTCCATTCATCTTGTTCTTG
			ACTATTTTGTAGTTTTTTAAAAGCTTCTTTTAGTTTTTCAGCATCAACAA
			TTTCTGAATCTTCATCCTCTTTTGGTTTTTGAATGGCTTGTTTTTGTTTT
	35		AAGATATATTGAAATTTTCATCAAATTTATCACTGTCCATTTCAATAAT
			GGCAGTATTTGTTAGCATAATTCGTTTGCTAGGATTGATT
			L TAAGCATTTGTTCTAAATTATTAGCATCTTTTTCATCTAAAGGGATAGGT
	40		L AAAGCACCCTGCCAGAAGAACCTACTATGCCAGTGATCCCAGGGAAGTT
	40		ACGAACAATTCTTCAAGCATCTTCACTATAAATCATCTTTATGTAGATGT
			1 ATCTACCAAGGAGATTTTTTCACTAATTTTTACCCTAAGATAACGGTAA
			1 TCATCAAGAACAAACCATTTGTTAAAAGTAGTGTTCTTTAAGGAACGAGG
	45		1 AAGTTTTCCTGATTTTAATGAATAAACTTCTTCATGAACTTCCCTTTCTT
			1 TTAGAACTTTAACATCAACAATCTCATGATTAAATCCTAAAGCTTGAATT
			1 TTAGCTTTTAGATTTTTTACAACAGCTTCATCTTTAATACTAACAGGAGC
	50		1 TACATACCACTTTGGTGTTAATTCACTAGCTTGCATAAATTAATT
	50		1 ATATTCCCAACGTAATTAACAATTGATTGATACCAAAAAAGATTCCTACC
	6405	1 ATCAGTCCACTAACTAGCAAAATTAAAAGAAAAATTATGATAAGTTGTCT	

	64101	${\tt ACCTTTTACTCAAACAATTTTGTTGATCTCTTTATCAACTCCAAATCATA}$
5	64151	${\tt AATTAACAATTCGTTTTTAAAAGGAAGCTTGGGTTTCTTTTCCTTTGCT}$
	64201	${\tt AAACTTTCATGCTTTTCTTTTTTTTTTTTTTTTTTTTTT$
	64251	${\tt CTTGGCTTCTAAGTTTGAGCTGTTTATGTAACTCATGAATTGAAG}$
	64301	${\tt CATCATCATAAGCAGTTAGCTTTTCCTTCTTTTTAAAGCTAAAAGGCAGT}$
10	64351	$\verb TTTTTTCCATGGCTTTTTAAAAAGAATCTAGATGCTTAGTTTTTGATT $
	64401	${\tt GCACTGCTTGCAGTACTTGTTGATGATAAGTCGCTGCAAAGGTTGTTTTG}$
	64451	${\tt TTCACCGTTTTACATAGTTACGACTTAAACAGTCTTGACAGACA$
	64501	${\tt ATCTTTTTGCGCAACTTCAGTAGCAAATTATAAATTATCTGCTTGTTTTA}$
15	64551	${\tt CTAATTTAATCTTTTGATAGCAATAGAGCTGTAAAAGGCCAAAGGGTAAA}$
	64601	${\tt AAACAAGATCAGTGTAGAATTTTTTTGAATTTAGGTTCAATATTTTCACA}$
	64651	${\tt TGCAGTATTAATTGTTTTTCAAATCATTATGCTGATAACTAAC$
20	64701	TCATAAAACAGATAGCAAAAACTCCTAAAACAATTAAAACTGCTCGTAAA
	64751	${\tt TTAAAAAAAATAGGATCACTTCTAATTGCACTTAAACTAGCTTTTCTAAT}$
	64801	TAAATCAAAGATGATACCAATCCCTACTAAAGAGATAATACAAACTAAAA
	64851	${\tt AAAAGATACTAATTAACAAAAGAATCTCATTAAGGTTATGGAGTTTTTTA}$
25	64901	${\tt AATACTTTCATGGAAAAGTGTATAGAGCATACTTGATTTTAAATGCATTT}$
	64951	${\tt TTTTAGCTAAATAATTGCATGCATCTTTTAACTTAACACCAATATCCATT}$
	65001	${\tt AACTTCTTTATTTCATATACTAAGTATTGATTGGAAGATAATGTTTGGTG}$
30	65051	${\tt ATTAATATTTTGATTATCAATAACAATTACAAATTCTCCTTTTAAAGTGA}$
30	65101	${\tt TGTCAGGTAAAGTGTTTTCACTGGTGTTAAATCAATAATGTGATTCATGT}$
	65151	${\tt AACTTAGTTAATTCTCTTTCCTATAAAAACGTCATTGTTTTTAAAAAACATT}$
	65201	${\tt TTTCACAGTTTCTAAAGTATTTtCTAACCTATGCACTGCTTCAAAAAAAA}$
35	65251	$\tt CGATAGTGCTTTTCTGATTTTGATAGGTACTTAAATAATTTTTGAGCTGA$
	65301	${\tt TTTTGTTTGTGACTTAAAAACCTAAAAACAAAAGTGGTGTTTTTAAA}$
	65351	${\tt ACCACTAGTGATCAATCCACACATTAATGCACTAGGACCATTAATAACTT}$
40	65401	${\tt CGATTCTTATCTCCTTATTTTTTGATATGATCCAATTAATCATTTCATTA}$
40	65451	${\tt CCAGGATCAGATAACTAGGATAACCTGCATCACTAACAAGACAACACTT}$
	65501	${\tt AAAGTTAGTTATAAATTCCTCAGCAAAAGTTAAATTCTGTTTTTTAA}$
4 5	65551	${\tt AACTGTTGTTAATAACAAACTTTTTTTGCTTGCAATCAAT$
	65601	${\tt TCCAGCATTTTCTTGTTACTCTACTATCTTCACAGAATAACACTTCACA}$
	65651	${\tt ATCTTGTAACGCTTTTTTAGCTCTTTCACTTATCTCTTGAATATTACCAA}$
	65701	${\tt TTGGTGTAGCAACTACTTTAAGTGTTTTCATACATCTTGAAAAGTTAGAT}$
50	65751	${\tt TTAATAAGTTAAGTTTTTAAATAGTTGCTTGTGGTTAAAATAAGGTAAA}$
50	65801	${\tt TTAAGATTATTGCATAAAAGTAATCGCTTTTTCTTATCATTTAACTTTAA}$
	65851	${\tt GCTTAAATACTGATCTCATAATATGCTTTGATTAGCATTTTTTTGTGATTG}$

	65901 CAACACGATTATTTAAAGCAGCAATTAAAGCACTAGTTTCCATTTCAGCA
	65951 ATACCAGCTTTTTTAGCGTTTTTTAACCTTGCATTCATATCAACATAACA
	66001 GTTGTAATAGTTTGTTAGATGTTGTTCTAATTTACTTCTAATCTTTTTGC
	66051 CTTGTTGATCTGGATCTAATAACAAGATAACAGTTTGCTTTTCACTGATT
	66101 TTTTTAATTAGGTTAATAGTTTCTTTTTTTAAAGCTGAACCATTTGTTGT
0	66151 AATTACATCTACATCAAAAATTTGCTGTAATTTAGCTTGGTCAGTTTTAC
U	66201 CCTCACAAACAATTACCCCATCAATTTTTATACGTGCTTTTTGATCCATT
	66251 CAATGTGACGTTCATATATTGCAGAAACTGATAAGCTGTTAGCGTAACAC
	66301 AGAACAACCTCTTCATATAAAGATGCTAGATCAACTACTTCAAACTGCTT
5	66351 TACAGCTTTAAACTTATATTGAGGAATAGAGTTTGATACAAACAA
	66401 CAATTAGTTTTTGATCAAATGCTTCCATAAACTTTTGTTCTGCATCATTG
	66451 TTAAACAAACCATGAGTTGCCATTACACACACTTTTTTAGCTTGTTCTTT
	66501 TTGTAATAGCTTGGCTGCAATTACTGTACCACCAGTATCTATC
20	66551 CATCAACTATTAAaCAGTTTTTATTTTTCACTTCACCTAAAACATTAATT
	66601 GATTCAGCAACATTATGAGATGGTCTTCTTTTATCAATAATGGCTAATGG
	66651 TAGTTCTAGTGTATTTGCAATTAACCTTGCTCTTTTAACCCCACCATAAT
25	66701 CAGGGGAAACAACCACCAAGTCTTTTTTACCAAGTAGTTCTATAACTCTA
	66751 AAAAGAAAGATGTGATAAGTTCTTAAAGAATCAACGGGAATATCAAAAAA
	66801 ACCTTGGGTTTGATCACTATGAATGTCAGTTAGAACAACCCTGTTAGCAC
	66851 CTGCTTTTGTTAACATATCAGCAATCAATTTACTGGTAATTGGTTCTCTT
30	66901 CCTTTTGTTTTTCTATCTTGTCTTGCATATCCATAATAGGGTAGAATGGC
	66951 AGTAATACTTTTAGCACTACCTCTTTTCAATGCATCAATAGCAATTAAAA
	67001 GTTCCATTAAGCTATCGTTAACATTAGGACAGGTTGATTGA
35	67051 ATATCTTTGTTACGAACTGATTCATCAAAACGGATATAAGtTTCACCATC
	67101 AGCAAAGTGTTCGCAAACCATTTTGCCCTCTGAAATATTTAGTTTTTTTGC
	67151 AGATATTTTCAACCAGTGTTTTGCTTTTAGATAAACTAAAAATAACGTGC
	67201 TTTTTATTATCGATACTCAGCTTCAAGCTCGCGTCGGATTGTTTTCTTTT
40	67251 TAATAGTTTCACGTTTGTCAAATTTCTTTTTAGGTTTTTGCCAATCAAATT
	67301 TCCACTTTAATTTTGCCATTTCTAAAGAATACTTTACTT
	67351 TAAAGATTGTTGTTTTTTTTTGATAATTTGTTTAATTTCATGTTTAT
45	67401 TTAATAAAAGTTTCTTAATTCTATCTGAAGCGTGATTTAATGGACCTGCA
	67451 AAACTATAAGGTGGAATAGTGAACTGTTCTAAAAAAAGCTCATTGTTTTT
	67501 AACAAAAACATAAGCTTCTTTTAAACTACCTTGACCTAAACTTAAAGCTT
	67551 TAACTTCACTTCCTTTTAAAACTATTCCAGCACAATAAGATTCCATTAAA
50	67601 TGATAGTCATATTTAGCCTTAGGATTGTTAACAAGAATTAACATTTATCA
	67651 ATGAAATTATCTGTAATTATACCTACTTACAATTGTGCATCATTTATTGA

	67701	AAAAGCAATTAATTCAATTGTTAAAAATAGACCTAATGATTTGGAAATAG
5	67751	AAGTTTTAATTATTGATGATGGATCAATTGACAATACTAACAAAGTTATT
	67801	AAGAAATTCAAGACCAAATTAATAATTTAACTTTGCAGTATTTTTACAA
	67851	AAGTAATGGTAACTGGGGTAGTGTTATTAATTATGTTAGAAACAATAAAC
	67901	TAGCAAAAGGGGAATGAGTAACAGTATTGGATAGTGATGACATTTTTTCA
10	67951	AAAAAACAATTTCTATTTTCAAAAATATGCCCAAAAACAAAGATATGA
	68001	TGCGATTATTTTTGACTACTATAAATGCTGAAAAAAGTTTTTGTGAAAAA
	68051	TTCCTACCTATGCAAGGTTTAGAAAAGAAATTAAAGGTGAATTGAAAAAA
	68101	CAAACACCTTTTTGTATTCCCTTAGCTAAGTTTTTTAAAAATGAGGTTTT
15	68151	CTATCAACTTCCTAAACTAAGAGAAAATGTTGGTTTTCAAGACGCTATTT
	68201	${\tt ATACGATGCATTACAAATTGCAAATAATGTTTTCCATGTTTCTAAA}$
	68251	${\tt GCTGGAGGATATTACTTTTTTAAAAGGGTAGGTAACTCTATGAGTATCCC}$
20	68301	${\tt TTGACACAGTTCTAGGTTTGATATTGAAGTACAAATCTGCAAGGATCTGA}$
	68351	${\tt TTGAAAATAATGCGCAAGAGATCGCTTTAGTGCATTTACTTCGTTTAAAA}$
	68401	${\tt TTTCGTAATTTAGTTGATGATAAAAAGATTAAATTTACAGTTAAAAGAGA}$
	68451	${\tt CTTTTGTTTTAGTGGTTTTAGTTGGTATAGTTAGTTAATTTTATCTCTGA}$
25	68501	${\tt TGTATAACTTCTGATTGAAACGTTATTTCAACAGTTCTGAATAACGATTT}$
	68551	${\tt TTTTGCTTATTTGCAATTACAAACTGTCATTCATTTGAGTTTTCATTTCT}$
	68601	${\tt TGTCATTTCCTGAACCAATTGATCACCATCTTTAATCCAACAAGCAGGAA}$
30	68651	${\tt AGAACTTAACAATTAGGTTTGCTAGTGCAATAAGTCCTAAGAAGAAAACA}$
30	68701	ATACTTACAATTACCCCTGGTAAAATACTTGTACCTTTTCCTTGAATTAA
	68751	${\tt AACAGGCGCTTGGAGAAATACTGATTGGGTAATGTCAAATAAGGTGTAAG}$
	68801	CAATATAACCAAAGCCCCAACAAAATCCAAAAAGAATAGGAAGTTCATTC
35	68851	${\tt TTCTTGTAATCTTTAAATTCATATGGCAGGATTAAATTTGAACTTGATAA}$
	68901	ACTCCAAGCAAATGCACCACCGATAAATGAAAAGATACTAATTAAAGCAA
	68951	ACCCAGCTGCACTACCAATACCAAGTGTTGCTGCAAACATGATGATTATA
40	69001	AGCAATACCACTATGTTAGCTGTTAATAAGAAGTGCATTCACCTCTTCTT
40	69051	GTCATAAATGGTTTATTAAATGGTGAAAAAACAACAAAGCCCAAAGCAT
	69101	AACCAATAACTCAAAAAATAGCAAGTGTTGCTAAACCTGTTGTGTACACA
4 5	69151	CCAGTACTTATCAAACCATTTGATCCTGATGGGGAAACAGTTTGCAAGAT
	69201	GCTAAATCAAGCTGGAGTTAACGGATTGACTATTAGTATTAAAACTATGC
	69251	CATAAACACCAATTAATTTTCATGTTGTTTTATTCTTTAAGATATCTATG
	69301	GATTTTGGTTGAGTAGTTAAACTCATATTTTCCTTAGTTTGCTTTTGAGG
50	69351	AAAGATGTGATCTATCTTGCTTTCAAACCATAAAAATAAACATAAGTTAG
50	69401	CAAACACAACCAAAATCATCACAGTCATAATGTAAACCCAGTATTGAGAG
	69451	GCTACTTGTTGAACTTGTTCAAATAAAAACGGTGTGAAAACTACTGCAAT

	${\tt 69501} \>\>\>\> CCCAATGTTAAAACCCCAAAGGTTAGCATTAGATAGGATTGATT$
	69551 TGTTTGAAGAAAGATTAGCAATTGCTGGTTGAGTATAAACTACTAAGGTA
	69601 GTTCCACCAATAGCAATTGTGCTTCTAAAGATAATAAACAATGCATAACC
	69651 AGTAATTGATGCAGCTGTACCAATACTATTACCATCCAAACCCTTAATAA
	69701 GTTCAACACTTGTTCCATCTGCAAGCATCGTTTTACCATTGATCATCACC
0	69751 GGTCCAAGTAATTGACCCACTTGTAAATTGCTACTTAGTGAACTTAATTG
•	69801 AGTTTTTACTGAATCTGATAAAGGTCTTAATAAAGTTAATTGATTATGAC
	69851 CATTCAAAGGGTCTCCTATAATAAGAAAGGGAAAACAAAC
	69901 CCCATCATGATTAAAACCGCATAACGATAACCAAATTTCAAAACAACAAC
15	69951 TCCACAAAGAATAGAACCTACTGCTCTCAATAAAGTGATAGTTCAGTTGG
	70001 TGGAAGATGTGGCTATTTGCCCAGCATTTTCAGTAAAGAAAG
	70051 CAACCACTGTACTGTGGTAAAGTGGTGGTTGATTGAGTAAGTA
20	70101 TGGTTTACCACTAATTCGATCAATTACAAACCATTCAACTACAAACAA
	70151 GATACCCAAAAATTACTATGATCCACAGGGTAATAAGTTTCAGATCACTT
	70201 ACTTTTTTTGACTTTTATTTTCCACAAATTAAGACAGAATTTACATTAG
	70251 ACTAATTTTAAAAGCTGTAGCTAATTGTTTTTTAGAACAAACTGAATCAA
25	70301 AGAATTTGAAATTGTCTTTCATTGTTAACAGCATTTAACAACAAAATTGA
	70351 ATAAAAATAAAAAACAGACCCTGATGGTCTGTTGGATATTTAATGGCGGA
	70401 AGCGGTGGGATTCGAACCCACGCACCGTAGAACGATCTAACACCTTAGCA
30	70451 GGGTGTCCTCTTAACCACTTGAGTACGCTCCCAGTTTGTTGTTAAATTTA
30	70501 TTATAAATATGCAACTAATTAGCGCTTTAGATGTTTAAAAATTTATTAAG
	70551 ACCATCCCTATTTTTAACTGGAGCCAAAAAACATTTAAAAATAAAT
	70601 CGTTTTTAAAACAAGCAGCAAATGCATTACAAAAACAGGCTGTTATCAAT
35	70651 GATAACAATGTTGCATTTGAAGCTTTAAAAAAGCGTGAAGAAGAGATTAC
	70701 AACTGGAATTATTACTAGTTTAGCTTTACCTCACTTACAAAGTCAAAGTG
	70751 TTATAGAACCTTTTGTTGCTGTATTTAAGGTTAAAAACTTAGATTGACAA
40	70801 TCATTAGATCAAAAACCAGTTAAATTGATATTTTTAATTGGTGTTCTTGT
40	70851 TGACAAAACCAATTTGCATCTTGATTTCATTAGTAACTTTTCCAAGTTAA
	70901 TGTTGAATGAAACATTTGCAAGTAAGGTTTTAAATGTCACTAGCTATAAC
4 5	70951 GGCTTGATTAAACTAATTGATCTTTTTAACCAACAAAAAGTGCAAGACCA
	71001 ACCAGCTGTTGAAACAAAAAAAGAGTATGACTTTGTTGCTGTAACAGCAT
	71051 GCCCAACTGGCATTGCCCATACTTTCATGGCTAAAGAAGCGTTGGAAGCA
	71101 TTTGCAAAAAGCATAACTTATATGTAAAAGTTGAAACTCAAGGTACAGA
50	71151 TGGGATACAAAATCAACTTACAAGTGACGATATTAATAACGCTAAAGGTC
	71201 TTATTCTTGCTTGTGATCGTTTAATTGATTTCTCTAGGTTTTATGCAAA
	71251 AAGAATGTGATTGAAGTGTCAACTACTAAAGCCATTAAAAAACCTGATG

	71301	${\tt GGTGTATGAATTAAAAAACCAAAAGGGTAAACAGCTTGCAAATAGTG}$
5	71351	$\tt CTAAACCAACTAATCAAACCCAATTAGCTGAAAGTGAAGGGGAATTCAAC$
	71401	${\tt TTTAATAATTTTCACAAGCGGATTTATCGTGCCATTTTAAGTGGTGTTTC}$
	71451	${\tt TTACATGCTACCATTCGTTGTTTTTGGTGGGATATTAATTGCACTCTCTT}$
	71501	${\tt TTCTAATTGATATAAATAACGCTAATAATGCTGGTGGTAACTTTGGCACA}$
10	71551	${\tt ATTAATCCTGTTGCTAACTGGTTAAATAAGCTAGGAGGAATTTCCTTTAG}$
	71601	${\tt TTTAATTGTTCCTATCTTATCTGCATACATTGCATATGCATTGGTATCAA}$
	71651	${\tt GACAGGGATTATTACCTGGTTTTGTTGTTGTTTAATCTCTTCAGGACAA}$
	71701	${\tt TTTTTATTAAATATTGTTCTGACCAATGGAACAATTGAATGGTTAGCACC}$
15	71751	${\tt ATCACAAGTATCAAGTGGCTTTTTTGGTGCTATCTTTGGAGGACTTTTGA}$
	71801	$\tt GTGCTTGCTTAATAATTGTTCAACAAAACTACATCTATAAAAAATTACCT$
	71851	${\tt CAATCTTTGCAGGGAATTAAAAACATCTTGTTTATTCCCTTGTTTGGTAC}$
20	71901	${\tt TTTATTCACTGCTGGTTTATTTTGGGTTATTAACATTCCTTTAATTTATC}$
	71951	${\tt TAAACTATGGATTAAGTCTGTTTTTAAATATTATGAACAGCCCTATCCTA}$
	72001	${\tt GCACCTTTACTTGGTTTTGTAATTGGGTTGATGTGTTTGATTTAGG}$
	72051	${\tt GGGGCCAATTAATAAAGCAGCTTATGTTTTTGGTGTTTTTTTT$
25	72101	${\tt ATCAAAATGCAGGAACAATTTCGATGGCTGCAGCTATGCTATCAGGGATG}$
	72151	${\tt GTACCTCCTTTATCAATTGCTTTGGCAGCTTCCATTCGAAAGAGCTGCTT}$
	72201	${\tt TGATAAACAGGAATTACCTGCAGCTTATGCTTGTTATCTGATGGGATTGA}$
30	72251	${\tt GTTTTATTAGTGAAGGTGCTATCCCATTTGTTGTTAAAAAACCTAAGGTG}$
	72301	${\tt ATGTTAACTGCTAACTTAATTGCTGGAGCAATTTGTGGAGCATTAACAGG}$
	72351	${\tt AGCATTTGCCTTATCAATTCGTGCTCCTCATGGCGGTGTTTTTGTGTTTG}$
	72401	${\tt CACTTTAAAAACTACTTTACAAGGGATTGAAGGAGCTACATTACAAACT}$
35	72451	${\tt GGAGTTGGCATTGGCATTGGTTTGATAATTAGTATGATAGT}$
	72501	${\tt TGGTAGTAGTATTATCATTGGCTATGACTTGATTGCAAAACATAACCAAA}$
	72551	GAAAGCAAAATCTGAATAGTTAATTACGCTTGCGCAATTGATTATTATGT
40	72601	TGATTTAAACAAGCAAAAAAATAGTGTTTTAATACCTGGTGGTAAGGGGA
	72651	TTAATGTTGCTATTGTAATGAAATCACTTGGTTTTGATCCAACTGTCATT
	72701	ACTTTTTTGGGACAACCCACTAAAAACTTATTTTTAGAGTTGGTAAAACC
	72751	TTATGATCTAAATATAGTTAGCTTCATTTCTGAAACTAAAACAAGAATTA
4 5	72801	ACCTTAAGTTATTAAAAGATGAAAAAACTACTGAAATTAATGATTTAAGT
	72851	CCTTTAATAACAGATGCTAATCTAACTGAATTGTTAACTTTTTTAAAAGC
	72901	${\tt TAATGTTAAGAATAATGATTTGGTTATCATCAACGGAAGATTTAAATTTG}$
50	72951	${\tt AAGCTTTAGAAAAAGTTCTAAACTTGGTCTTTACATTAACAGAAAATGTG}$
30	73001	${\tt GTTATAGATGTTGATGAAAGCAAAATGTTAACGCTTTTAAATCAGTCTAA}$
	73051	${\tt ACCACTAGTTATGAAACCTAACATTGATGAGTTTCAAACTATGATTAATA}$

	73101	CTTTTTTTCACGATCAACAAAGCTTAATAGCAGCAATTAAAAAATTTCAT
	73151	TACTGTAAGCTCTTATTATTATCTGATGGTGACAAAGGAGCTTATCTTTT
5	73201	TGATCAGAATAAGTTATTGTTTGTAAGTTCTATCACTCCTAAACAAGTAG
	73251	${\tt TTAGCACCACAGGAGCAGGTGATACTTTGTTGGCAGTTTTTTTAGCAAAT}$
	73301	${\tt TTGATTCTAAAGGTAGATTTAAAAACTGCTTTGATTAAAGCAACTAACT$
10	73351	${\tt TGCAAGTGCAACAATTAGTAAGTTAGGTGTTGTTGATAGTAAAGACAAAA}$
10	73401	${\tt TTAGTGTTATAACCCCAAAAAGTTACTATTTATAATTAAT$
	73451	AAAAAGAAAGCGAAAGCCTAAGCTTAATTCGCGTAATATTTTAACTATCC
	73501	${\tt AGATTGTTTTAACAATCTTTAGTATGATCTTTTTTTTTT$
15	73551	TTAATCTTGTTTTTGAGTTTGCAAAGTAATTTAGCTACAGCTTTAGTTGA
	73601	AAACAGAAATAAAGCTGTGGAACTTGTAGATAACATTGTCTTTTTTAAA
	73651	AGAACTGATTTTTAAATTTGTCTCTGACTAATTTATTAGTGTGTTAAACC
20		TAATTAAAAATGTTATTCGTTCTTTAAAGAGTGCTAAGATTGCTTTAATA
20		GCGTTAACTTTTTAATTTTTGTTGCTGTTGGTGGTTTTTGTTGTTAAA
		TAACACAGTTAATAATTTTAACGCTGCTTTTAACTATGTCACCCACACTG
		GTAAATTAAGCAATGCCATCATTAATGAGCGTTATGACTTTGGTAAATTA
25		GAGTTTCAAGAACAGACCAATAATTCTCAGAATAGTAGCGACAGTTTTAC
		TTTAACTTTAACTAATGATTCAAGAACAAGTTTTATTAATAATGCCTTGA
		GAACTAACCCTTCTTTGTATGAAGGATTAGTAACCCAAACTTTTAGCTAT
30		CAAAACAAAACTGAAATGACTGAAAAAACCAATATAGTTAATCAGTCTAA
30		AATTATTGCTGCTAACAATCTTAACAATGCATTAAGTAAAGATAAACAGC
		TCTTAGTTTCAGGTCAACTTGAAAAACTAAATGCTGTTTTTCGGGAATAT
		AAAGCTATTAATATTACTGACAAAAGTGTTTTTAAAAAATTGATAGTATC
35		AGAACCTAATGATTTGGTAAATAGCCTAGTTATTTTTGATGGTCAAAATT
		TATCTAGCTCCAAACAAAGTGATTTCAATAATTTTTTAAATCAATTTAAC
		GAAATTAAATCAAAGGGTAAAGATAATTTAAGTACTACTTTAAAAACTGG
40		GCAGTATCAGGCATTTTTACAAACTCTTTTTGATTATGCTCAAGCGAGTG
40		AAACAACATTAAAAGATCAGCTTCAAAAGTTAATTTCAAATCCAGATTCA
		1 AGTGAAACAAATCAGGTTAAAAATCTCTTTGATACTCCAAGTACGCTTAC
		1 TAATATTGGGGGTCAATTAACCTTACAATGAACAGAAAATAGCCTAACAA
45		1 AACAGATAGTTATCTTTGATCCTAGTAGTTATGAAACAATAGTCGCTCCT
		1 GGTAACTGAACTTATCAACAACAATTAGGTAAAGAAGTTTATCCTGATAT
		1 TAACAACTGAGAAAGTATTAAAAAACTACCACTTGAACAATTTGAAAGTC
50		1 AATTTTTAAAAATTGATCAAAAGTATAAGATCAGTATTGATAATATCGAT
50		1 TATTTAGTTATTGGGGTTGGAATTAGTCCAGATTTTGTTTATCCTGTTT
	7485	1 TAGTGCATCTTTAATTGTTCCTAACATTGAAAATGAACAACTTTACTATC

	74901	$\verb TTAACCAAACTGGATATGAAAGAACTTTTTCCTCTTTTTTAACAAATCCA $
	74951	${\tt GTTGAAACAGCAATAGTAGCAAGATTGATTAATCTTGAAAGTGATCTTAA}$
5	75001	${\tt TACTATCAACCAGTGAGCTGTTGAAAACATGTCATGACCAACAAACA$
	75051	${\tt AAGCTGCATACAGTAGTTCTGATACCACTAATATTTTGAATTTATTAGCA}$
	75101	${\tt GCAAGAACAGTTTTTATCCCTAATCTAATTAACACAATTAATT$
10	75151	${\tt TTTGTTTTAACTATTGCTATCCTAACTGTTGCTATAATTGTCAGCATTT}$
	75201	${\tt TAATCCTGATTAGTTATTTAAAGAAAAACACTGAGCAAATTGGCATTTTA}$
	75251	${\tt AAAGCAAATGGGTTAAGTGGTAAAAAGATTAACCTTAGCTTGTTAATCTT}$
	75301	${\tt TGGGTTAATTCCTGCTATAGTAGGTGCTATTTCTGGATATAGCTTTGGAA}$
15	75351	${\tt TTGGATTTCAAGACGTAGCTATTCATCTATTTAGTAACTATTGATTTATA}$
	75401	${\tt CCAACAGCAACATCAAGTTTTTCAGTAGGATTGTTTTTTTCACT}$
	75451	${\tt GTTTGTTATCTTAATTATGAGTAGTATATCGCTTTTAGTGGGATCAATTA}$
20	75501	${\tt TCTTAAAGAAGGATGTTGTAAAGATTTTAAAGCATGACAGTGAATTTAAA}$
	75551	${\tt GTTTCAAGATTAGGACTTAGTTCTAAGAAATTGTTTGCTAGGTTTGGTAT}$
	75601	${\tt TATGACCAGGTTTAGAGTAGCATTAGCATTTAACGCTCCTTGAAAATTAG}$
	75651	${\tt TTTTTCTAACCTTGATGAGTTCATTTACAATGATGATTTTAAACCTTAGT}$
25	75701	${\tt TTTGCAACTAAAGATAGCTTTGAAAATGCTCAATCAAAAACTAATTTAAC}$
	75751	${\tt TAATCAGAACCACCAATATGAATTTGAACTCGCTTCAGCAACACACAAA}$
	75801	$\tt GTGGTTTATTGAAGTGACAGTTATTTGCAGAACTAGGTACAACTGATAAA$
30	75851	${\tt AGAAGTGAAAGTATAAAGCTTGCAAATAAAAGGATGGATATTAGTAA}$
	75901	${\tt TGTTGATGCATCTAAAGATTGAAAGAACCAACAAGTAATTAAT$
	75951	${\tt GCGATGCTAGTGGCTTTAGTAATGATTTAAATTACCTTGAAAACATTGTT}$
	76001	${\tt CAATCCAAGATAGGTTTAGACTATTCATTGGGATTTAACAATATTGTTTC}$
35	76051	${\tt AAATCCCTGAAGGTTAAGTGAAACATTAATGCCAACTAACCAAGCATCTG}$
	76101	$\tt CTTCCAACACTGCTTTTCAAAATTTTTTAAAAGCAATCATTACTATAAAT$
	76151	${\tt CCAAGCCAAGGATCGCAATTCATTAAACAAACCCAAGATCCATTAACAAA}$
40	76201	${\tt AAGATTTATCTATGCAATTGACAGTGATAAGGCATTAAAAAATAATAATG}$
40	76251	${\tt AACAAAACGGTTCCCAAAACCACTTAACTTTAAATGATGATTTTGCTAAA}$
	76301	${\tt TTTCTCTACAGTCAATTTGAATTAATTAAAAAGAGTGGGAATGCAAGTAA}$
	76351	${\tt TGAAGATTTAAATGCAATTGATTTTGAAAACCCCCCAAACAATCAGAGATT}$
45	76401	${\tt TTTACAACAAGTACAATGCTTTACCACCATTAGATTACAAACTTAGCTTT}$
	76451	${\tt AATGTAATAGGTTTACCCAAAGAGACAATTGCTGGACAAATTGACACCCC}$
	76501	${\tt TAAGTATGGATTTTTAACCCTTCATGGTGAATATCAAAATACTCCTATCA}$
F0	76551	${\tt AGATTAAAGGTATTAAAGATTGAAAAGATAAAGTGGATAATTTAGGTCCA}$
50	76601	${\tt GTTTTGAGTGATCAAAACAACCACATTATTAATCAAGAATTGTTTAAAAA}$
	76651	TTATTCTTTTGATCCTTTGATAGTTAACAATTCTGCTGCAAAAAAAA

	76701 AACTTGCAATAGGTAGTGAGATTAATATTGCAGTTAACAACAGCTTCA	AA
	76751 CGGATTGACAATAAGATCATTAATCAAGATCCTTTAGTGAATGCTACC	ГT
	76801 TAGAGTTGTAGGGATTAACAATTCCGCTCATGATCCTGAATTTTTCAC	ΓA
	76851 GTTATAGTACTGCTTTTAAAGTATTGGAATATCCCAATGAATG	TA
	76901 AAAAAACTTCCATTTAATAGCTTCTATGCTAATTCGCTTTTAAGTTTT	GT
0	76951 TCAATCTACTTCGCTATTTTCTGAATCTGGTATTTTTCCTGCTACTAG	TA
U	77001 GTTTTCAACTAATAACACTGTACTTGTTGAGTTAATTAAAAAAACCA	TT
	77051 AATTACAAGAATGGTCAAATGAATCAAACTTCAAGTAATGACTCTTCT	AA
	77101 GAAAGAAAATTACCAAAAATTGCAAAAAGCATTAGGAATATCAACTGA	TT.
5	77151 TGGAGATTAGTAAAGTTAATGAATATGTTGCTATCTTAGCAAGGGTTT	AT
	77201 AATGGTTTACCTTACAACTCTACTATTAGCTTTATTAGCAATGTTGCT	GC
	77251 TAACAACGCTTTATTTGGAAATATTGCTAACACCACCAAGCAGATTCA	AG
20	77301 CTGTTGTAATTGCAGTGATTATTCCTATAATCATGTTGATTATTCTTT	
	77351 GTTTCAACTACCTTAATTCAAGAGTTGAAAAAAATTGCTATTAGATTA	
	77401 AGCATTGGGATATTCCAATTTAAAAATTCTCGCTTCATTTTTATCAAT	
	77451 ACATCCCTTTATTTGCCTTTGGTTTGTTGATTTCTATCCCCTTTTCTA	
25	77501 TATCTAATTGCACTACATAATGAGGTAATTTTTGCAAGCTCATCGATC	
	77551 TTTAGATGCTTTTTTAAGTTTTGAAAGTGCAATTGGTTCAATGTTAGT	
	77601 TACTAGCGGTTTTATCAATTACCTTTGTGTTGAATTGATTAGAGTTGA	
30	77651 AAAATTAAGATTGACAAGGAAATCAAAAACTCCTAATGGATTTTTTCT	
	77701 TTAAACAAAATCATAAAACCCAACCAGAAATTCACTAGTAATGAAGCT	
	77751 ATTTCTACAGATAGCTACTGATTATTTGGAGGAAAGTCAAAACTATC	
	77801 AAAAGGGTTTAAAGCAATTAAAAAAGAATATAAAAGATCCATTATT	
35	77851 AACCCTAACCTTGAATATAAACGCTTTGTTAAATGAAAAGAAAATTT	
	77901 TGAAACATTTGAAAGTTATTATGACAGGTTTTTTATTACCAAATACA	
	77951 ATTATTCACTAAGCTTACTTTTTAGCTTTATTAATGAACAGATTGAA	
40	78001 GTTATTGCTAGTTACAACTCATTTCTAAATGAGCATAATAAGTTAGC	
	78051 TAATAAAGTTAGTTTTAGTTTTGAAAAGAAACTTTTTGAAGCTACAC	
	78101 AGTTTAATAACTTAGAAAAAAACACTGCTATTAGTGATGATTTACCG	
	78151 CAGTTTAAAGTTAGAACAACTCAACTAAAAGCCCCAAAGAGAAAGGGA	
4 5	78201 GAAGAACTTGTTGAATAAAATCAAGCTTAAAAATTTAAGTGAAAAAA	
	78251 AAGAAATTTTGTTAAATAACTGGTTTAATAGCAACGAACG	
50	78301 AAAAATGAAGTGAAAAAGGTTAATTGACTAAACTCGCCAAGACAAAA	
	78351 ACAAGCAGCTCAAATTGATGATCAAAACATTATTGAATTGAAAAATG	
	78401 ATAAATACATCACTAATGGCATTACTACAAATGCAGTTCTTAAAGGA	
	78451 GATCTTGCCATTAAAAGTCATGATTTTATTGTGATTTTAGGCCCTTC	, M GC

	78501	${\tt ATCTGGTAAAACCACATTACTAAACATTATTTCAGGGATGGAT$
	78551	${\tt CTAGTGGTAGTGTTATTGTCAATGGTTATAACATGATTTGTTTAAATGAT}$
5	78601	${\tt AGAAAGCTCACTAAATTCCGTCAAAAGTATGTTGGTTACATCTTTCAACA}$
	78651	${\tt ATACGGTTTATTACCTAATTTAACAGTTAGAGAAAACATTGAGATAGGAG}$
	78701	${\tt CAAATCTTCAACCAGATCCTAGTAAAAGGATCAGCATTGATGCACTTTTA}$
10	78751	${\tt GAAGCGGTTGGGATGGATAGTTTGCAAAAGAAGCTTCCTAATGAATTGAG}$
	78801	${\tt TGGTGGGCAACAGCAACGTGTTTCCATTGCAAGAGCTTTTGCTAAAAACC}$
	78851	${\tt CCTTATTAATTTTTGGTGATGAACCTACTGGGGCACTTGATCTTGAGATG}$
	78901	${\tt ACCCAAATTGTTTTAAAACAGTTTTTAGCAATTAAAAAGCGTTATCAAAC}$
15	78951	${\tt GACAATGATTATTGTTACCCACAACAATTTAATTGCTAACTTAGCTGATT}$
	79001	${\tt TAGTTATCTATGTAGCAGATGGAAAAATAAAATCACTACACAGGAACTTA}$
	79051	${\tt AATCCTAAACAGGTTGAAGAGATCCATTGAATTTAGATTATGAAATACTT}$
20	79101	${\tt ATATGCCACTCAACACCTTACTTTAAATGCTATTAAGCATGCTAAGGGAG}$
	79151	${\tt GACATGTTGGCATGGCCATTGGTGCAAGTCCTATCTTATTTAGTTTATTT}$
	79201	${\tt ACTAAACACTTTCACTTTGATCCTGACCAAACCAAAGTGGATCAACAGAGA}$
	79251	${\tt TCGCTTTGTTTTAAGTGCTGGCCATGGTAGCATGGCATTATATTCAATTT}$
25	79301	${\tt TCCATTTTGCCGGACTTATTTCTAAACAAGAGATCTTACAGCATAAACAT}$
	79351	${\tt GGTCAAATTAACACTTCTTCCCATCCTGAATATGCTCCAAATAACTTCAT}$
	79401	${\tt AGATGCATCAACAGGCCCTTTAGGTCAAGGCTTTGGCATGGCAGTTGGCA}$
30	79451	${\tt TGGTGTTAGCACAAAAGTTATTAGCTAATGAATTTAAAGAGCTAAGTGAT}$
	79501	${\tt AAATTGTTTGACCATTACACCTATGTGGTTGTTGGGGATGGAGATCTACA}$
	79551	${\tt GGAGGGGGTTAGTTATGAAGTTAGTCAAATTGCTGGGTTATATAAATTAA}$
	79601	${\tt ATAAACTAATTGTGCTTCATGATTCAAATAGAGTGCAAATGGATAGTGAA}$
35	79651	${\tt GTAAAAAAGTTGCTAATGAAAATCTAAAGGTTAGGTTTGAAAACGTTGG}$
	79701	TTGGAATTACATCCATACTGATGATCAACTAGAAAATATTGATCAAGCTA
	79751	${\tt TTATTAAAGCCAAACAATCAGATAAGCCAACTTTTATTGAAGTGAGAACA}$
4 0	79801	${\tt ACTATTGCTAAAAACACCCACCTTGAAGATCAGTATGGAGGACATTGGTT}$
	79851	TATTCCCAATGAAGTGGACTTTCAACTTTTTGAGAAAAGAACAAATACTA
	79901	${\tt ACTTTAACTTTTTAATTATCCAGATAGTATTTACCACTGATTCAAACAA}$
	79951	${\tt ACTGTTATTGAAAGACAAAACAAATTAAAGAAGATTACAACaATTTGCT}$
4 5	80001	${\tt AATTTCTCTTAAAGACAAACCACTTTTTAAAAAATTTACTAATTGGATTG}$
	80051	${\tt ACAGTGATTTCAAGCCCTTTATCTTAACCAACTAGATGAAAAGAAAG$
	80101	${\tt GCAAAAAAAGATAGTGCTACTAGAAACTATTTAAAAGATTTTTAAAACCA}$
50	80151	${\tt AATTAATAATCCTAATTCCAACTTGTATTGCTTAAATGCTGATGTATCAC}$
	80201	${\tt GTTCTTGTTTTATCAAGATAGGTGATGATAATCTCCATGAAAATCCTTGT}$
	80251	${\tt TCTAGAAATATCCAAATAGGAATTAGGGAGTTTGCAATGGCAACAATAAT}$

	80301 GAATGGTATGGCACTTCATGGTGGTATTAAAGTGATGGGTGGTACTTTTT
,	80351 TAGCATTTGCTGATTATTCAAAGCCAGCAATTCGCTTAGGTGCATTAATG
	80401 AACTTACCAGTATTTTATGTTTATACCCATGACTCTTATCAAGTAGGGGG
	80451 TGATGGTCCTACTCATCAACCCTATGATCAACTACCAATGTTAAGAGCAA
	80501 TTGAAAATGTTTGTGTATTTCGTCCTTGTGATGAAAAGGAAACTTGTGCT
10	80551 GGATTTAACTATGGTCTTTTAAGTCAAGATCAGACAACTGTTTTGGTTTT
10	80601 AACACGTCAACCCTTAAAATCCATTGATAACACTGATAGTTTAAAAACAC
	80651 TGAAGGGTGGTTATATCCTTTTGGATAGAAAACAACCTGATTTAATTATT
	80701 GCTGCTAGTGGTAGTGAAGTGCAACTTGCAATAGAGTTTGAAAAAGTTTT
15	80751 AACTAAACAAAATGTAAAGGTAAGAATTCTGTCAGTTCCCAATATAACTT
	80801 TACTTTTAAAACAAGATGAAAAATATCTAAAGAGTTTATTTGATGCTAAC
	80851 AGTTCACTTATCACCATAGAAGCTAGTAGTAGCTATGAGTGGTTTTGCTT
00	80901 TAAGAAGTATGTTAAAAACCATGCTCATTTAGGAGCTTTTAGTTTTGGTG
20	80951 AATCTGATGATGGAGATAAAGTTTATCAGCAAAAAGGGTTTAATCTGGAA
	81001 AGGTTAATGAAAATATTTACTTCCCTAAGAAATTAAAATTATCTTAATGT
	81051 TGTATAGGTTTTGAAAAACAGGATTGGCAATTTTTATGCCTGGTTGCATC
25	81101 TTACTTTCATCCTGTTCTTTTAGAAGTTATATCCCAACTCCTAGTTTAAG
	81151 AAATACTGTTGGTAATCACAACAGTTATGTTAATAATACTGTCCCTAAAA
	81201 ACAATTTTTATGAAAAGTTTTATGATCTAACTTTTGCTTTAAATTTCACT
30	81251 AATCAGAAAACTCAAGAGTTTGGTACTGGTTGGTTAATTGACTGAAAAGG
30	81301 AGATGAAACTAAAGATCTTAATACATTAACTATTGCTAGTTCTTCTATTA
	81351 TTTCCTCTGTAAGTAATCATTCTTTAAAAGAAAAACAAGATGACAAGCTT
	81401 TTTATTGCTTATATTGCCACCAATTTACATCTGATAGATGGTTTAAAGAA
35	81451 TGATCATGATTATCAACCATACAATAAAGATGGAAATGGTCTTAGTTTTC
	81501 CATTTGATCAAAAAACCCCAATCATTCTTATTGGGTAGGTTTGCCAATCCT
	81551 AAGATAAATTCCAAACCAGAAGAGATGAACTACCAAGTTCAAACTCGTTT
40	81601 AAAACAAGATGCAATGGTGTTTATCCAAACCAGTACTTTACCTAAAACTG
40	81651 CTTATGCAGGAATTGATCCTATTAACTTTGATTACCATGAAACTAGTGAT
	81701 GAGAGTGGATTTTGAACTAAAAAACAAAGCACTGCAAACTTCCCTAGAAC
45	81751 AAGAACATTAAAAAGTTATGCTGATTTTGCAGTTTTAGAGGTACCCTTAT
	81801 TCTTAGATAATGCTAATGATGCCAAGATTTATCAAGAGTGAATTAGACCA
	81851 GCAGTTCAAGCTTATAAGGAGCTAGGGGGATGTTGAAAATATTTTTGCTAA
50	81901 AACCCCATACGCTGAATATATAATAACACCTACTACTTATTGGGTTATC
	81951 CTGTTACTAATAACAATAAGTATCAGTTTATCTTAGGTCAAGATGAAAAC
	82001 TGAAAGTTTTCTCAACAAACTTCTGTATTAAAGCACTATCAAAAACAACC
	82051 TCTTCAACAAAGAACAGTTTATGTTGAACGTGATGATGGTCTTCCTACA

	82101	${\tt TAACTTTAATGAAGATAAACTCACTCATGTTCAAGGTACTGATCTAATT}$
-	82151	${\tt AATGTTGATCAGATTACCGATACTAATTTAGGAAATGGCTTAATAAATTA}$
5	82201	${\tt TGCTGGTTTATCACGCTTTACTTTAAGCTATCACAATGTTGAATATAAGT}$
	82251	${\tt TATTTGGTTATGGCACTATTTTAAATAATACTAATTTTCCAGGTGGATCT}$
	82301	${\tt TCTGGTAGTGCTGTTTTCAACAAGGAAAAACAACTAACAAGTATTTACTT}$
10	82351	${\tt TGGTTCACTGATTAATGTAACAACTGGAAATAACAGGAATGTTAATTTAG}$
	82401	${\tt GTTTGGGTCAAATTCTTCGTACTTATAACACTAATAATAGTAAGCACAGT}$
	82451	${\tt GCACCATCATATGATTTAATTTTTGGTGATAAAAACACCATCAAGTT}$
	82501	${\tt TTATGCACAGTTTGCAAAAGAAAAGCAAACTCATCTTTGAAATAAAATTC}$
15	82551	AAACATCTGTTAACTCTTCAATCAGCTTTTACAAAGACAAAAAATAATAA
	82601	${\tt TTAACTAACAATTTGTATTTGTGTTAAGACGTTATCTAACTCTGAGTTTT}$
	82651	${\tt TCTAGCTTGCTTTTATTAGCACTGCTGTTTTTAACAGGCTGTTCTTTTGT}$
20	82701	TAGACCACAATTTCGCAGGGGCTTTAGAACCCAGTTTAAAATTAACTCTA
	82751	${\tt TTCCAACTGTTAGTGATCCTTATCACATTAACTACGACTTAACTTTTCACATTACTACGACTTAACTTTTTCACATTAACTACGACTTAACTTTTCACATTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTTAACTACGACTACACATACACATACACATACACATACACATACACACATACACATACACATACACATACACATACACACATACACACATACACACATACACACATAC$
	82801	TTAAACTTTGCTTCCAACAAAAGAAATACTTATGGTACTGGTTGGT
	82851	$\tt TGATTGGAAAGGAGATGAAAATAACCCTGAGaAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAGGAGAAAAATGATCCTTTTAAAAGGAGAAAAATGATCCTTTTAAAAGGAGAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAATGATCCTTTTAAAAGGAGAAAAAAATGATCCTTTTAAAAGGAGAAAAAAAA$
25	82901	${\tt TTTATTTAGCTACTAACCtCCATGTGATAGATGCTTTAAGAAATAATAAT}$
	82951	GACTATGAACCATATAACAAGGATAGTAATAACCAAGCTTTTAATAGTGA
	83001	${\tt AGAGATCACTAGGTTCTTTTCTATAGGTAAATACACATATCCTAGTATTT}$
30	83051	${\tt TTAGTGAATTAAATTTCATTATCAATGCTAGAGAGCGTTTGTTT$
	83101	${\tt CAAACCTCTACTATTCCTAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAACTTTGTTGAAAACTGCTTATGCTGCTGTTAAACTTTGTTGAAAACTGCTTATGCTGCTGTTAAACTTTGTTGAAAACTGCTTATGCTGCTGTTAAACTTTGTTGAAAACTGCTTATGCTGCTGTTAAACTTTGTTGAAAACTGCTTATGCTGCTGTTAAACTTTGTTGAAAACTGCTTATGTTGAAAACTGCTTGTTAAACTTTGTTGAAAACTGCTTGTTAAACTTTGTTGAAAACTGCTTGTTAAACTTTGTTGAAAAACTGCTTATGTTGAAAAAACTGCTTAAAAAAAA$
	83151	${\tt AACACAAGGAGGAGGATGAAAGTTATACAGATTCATTATCAACTGATAATA}$
	83201	${\tt AAAGAGATATTTATGCGGATTTTGCTGTGATAGAAATTCCCTTATTCTTA}$
35	83251	ACTAACCATCGCGATTATCAAGTATTTAATGAATTTATTAAACCAGCAAT
	83301	AGAAACATACAAACTAGGAAACTCTTCCTTTGAAAAAAAA
	83351	ATCAACATAAAAACGACAACTTTTACATGTTAGGTTATCCTTTGGTTGAG
40	83401	AGTAGCATAGATGCTCTAATTTTGAACCAAAGAAGACAGTACAATAACAG
	83451	TTATACTGAAAATATACTCCTCAAACTTTAACCAAAGATCAACGTACCA
	83501	TTGACTTAAGCAGAGAAGTTCCTACTTTAATTCAGAACAAAACAGAAAAC
	83551	TCTACAGGAAGTCAATTACTAGTAAATCAATCTTTAAGTAGTACATCTGA
45	83601	${\tt AGGGATTATTGAATTTATTAAGTTACCTGAATTTAAACTCAATTATCATA}$
	83651	ATAAAAGTTACCGTCAATATGGTAGAGGTTTTGCTCTACAAAACACTAAC
	83701	TTTAGACCAGGTTCTTCAGGAACTTTAATGTTAAATAACCAAAAACAGAT
50	83751	${\tt AGCAGGTATTTATTTTGGTGTTTTAGATTTTGGAGAAGATGTAAGTTAAGTTTAAGTTTAAGTTAAGTTAAGTTAAGTTTAAGTTTAAGTAAGTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTTAAGTA$
50	83801	TGAGTAACATTGGCGTTGGACAAATTCTTCGTGTTCCTCAAAAGAACAAT
	83851	ACTAGAAATAGATCAATTGCTACTAATAAAAGCAACTATGATTTGATCTT

	83901 TGGTGATAGCAATACAACTAACTTTTATGCAAAATTTGCTAGACAAAATA
	83951 ACACCCATCTTTATCAGATGATTTCAAATAGTAAAGATACAAAATTAAAG
	84001 TATGTGAATACTGTTGAAAAAACAGTAAAAGCTAGTATTAAATAAA
	84051 AATAGTGACTTTCTTTTTTTATACTCATAAAAATGGAAAATCAAAACAGT
	84101 TGTAGTTCTGTAAAAGAAAAAGAGTTATATAATCCAAAAAAAGCCTTTTCT
•	84151 TTTTGCGGTAATTTCTTTCTTTGTTTTCATAATATTTTTTGCTTTAGCAG
0	84201 GTTCATTTACCAAATTTGCATTAGAAGAAAGCAGGGGTTATAGTTTTCTT
	84251 GTTATTGTCTGTTATCTTCTAGGAACAGTTTGTTTTTTTT
	84301 TTTTTGGTTTTGATTCTTATCTGAATTTTTTGCAAATAGAGTTCTAGTTA
5	84351 AGTTATGAGATTTACCTACTAAAAAGAGAAAAAAAAAAA
	84401 CAAAGATAATTAGTTAAGTTTTAATAACTCAGTTGGCAAATAAAT
	84451 AGTTATTAGAACGCTATTTTTTATTAATTTAAGTGTTTGTT
20	84501 TTAAGTACTTTTTTAACTTGTTAAAAAAGTAGTTATTTTATTAGTTGGAA
20	84551 AGTGCAAAAAGAATTAAATATTTCAAATGATAAAAAGACTTGTTTAAATG
	84601 AAATAGAAACAAGCAAAGTTAAATTTCTAACAACAACTTTAATTTTGTTG
	84651 TGATCAATATTAATAACACTCTTAGTTGTTAGTGTATTAGCATTTAA
25	84701 TTTCATTTTATTAGGATCTACTAAACAAGGATTACCAAATACCAATGAAA
	84751 TAGAGACACTAAAAAGTTCATTAGCCTTGCAATTATCACAAAATGGTGTG
	84801 ATCTTATCAATAGCACTACTTGCTTTTTTTAGTTGGATGGCAATTGTTGG
	84851 AATTCACAGCTTTTTAGTTGGAATTTTAGTTAATCATCAAACACTTAAAA
30	84901 TAAGTAAAAAGTATGTTATTTTAGGTTCGATTTTTCCAATTATGGCATTA
	84951 ACAAATACTCTGTAATTAGAAAAAATTAAAAGCTTTATTAGGAGAGGGT
	85001 AAGGTTCAAAAAGGACTCAAAGTTTTAACTATTAGTTTTATTTGTGTTTG
35	85051 AAGCTTGCAATTGATAATAGGCTTTTTTGTATGACTTTTTCCTTATGCTG
	85101 GTGAGGCAGGAATTAATATAGGAATTAATTTATCTATTTTTAATTTGGCT
	85151 CAGTTAGTAGGCTCAGATATAAATGTAATAACTTACTTTACAACTTTTTT
40	85201 AACGCTGCTTTTTGCATTTCTTTCATGAGCCGTATTGCATGTTTTAGCTT
40	85251 GCTTTATTTTGGTACATTTGACTATTTATAAACAACAAGAATGAAT
	85301 ATTAAAGCTATTTACATTTTGGCTTTAACCTTAATTGATTTAATGGGTTT
4 5	85351 AATTTTGGCTTTTGGTATTATTGTTGTTAACAATACAAATTCTTCAAGTG
	85401 TTGATGCAAAATCAAATTCCTTAGCATTAATTTTTAAGTTCATTTATTT
	85451 GGTAGTTCTATAGCAGCCTTTTTAACAGTTTTAAGTTTTGCTAGTTCAGT
	85501 TGCTTTACTTGTCAATTTAATAAAAAAAGATAAGGGATTAACCTTAAAAA
50	85551 ATTAGTTAACCTCCCCAACCTCTATTTTCTGTTACTAGTGCCTAAGGTG
	85601 GTATTGGAGTATCACAAGCTCAGTAAGGATGTAGTCAAAGAGAGTTTGGG
	85651 GGTGGATACATCAGGTTCAACTTTTGATCCAACTAAAAGGTTGAAAAAAG

	85701	${\tt ATAGTCCAATGAAGGATTCAAACAAAGACAGTGAGAAACTCACCGAAGCA}$
-	85751	${\tt ACTGCTTCATCCATGAGTAGTGGTGGGGCTACATCCACTCGCAAGGCCCT}$
5	85801	${\tt CAAGGTTGAGGTGGAGAAACAAAGTGGATCAACTGATTCACTTTTAAAAA}$
	85851	${\tt ACGACTTTGCTAAAAAGCCACTAAAGCATAAAGAAAATAGTGGGGAGGTG}$
	85901	${\tt AAGTTGGATGCGAGTGGGGAGTTTGCCAATGATAAAGCCTGAAAACCGGT}$
10	85951	$\tt GTTGAAAACAGATGAGATAACAAGAGAGAGGGGGGATGGGGGGGACTTAGA$
	86001	$\tt CTTTCTCCCCTGAATCGGCAATGGTTATTCCTTCTCCAACTCCCCCTCCC$
	86051	$\tt CTTCTTCTTCTTCTACTACTTCTACTTCTTCTTCTACCCCACTCCCC$
	86101	${\tt ACTTTTCTAACATCAATGTTGGGGTTAAATCAATGATCACTCAACACTT}$
15	86151	${\tt AAATCAGCAAAACACCCGGTGGGTGTTTACCCCTAACTCTTCACCAGACA}$
	86201	${\tt TCTGAACGGGAGCAGGGTATCGCAAGGGTTCATCAAACACCAACGGCATT}$
	86251	${\tt CCCTTCGACCAGGTGAAACCTAGCAATAATAGTCAACAGTTTAATCCCAA}$
20	86301	${\tt TTCAGATGATAATAAAGTCACTTCAGGTGGCTCCTCCAAACCAACC$
	86351	${\tt ACACCCATTTACCCAACAGTATCAGTCCCACCAGTGACTGGATCAATGCG}$
	86401	${\tt TTGACTTCACTAATAAGAATAACCCGCAAAGAAACCAACTGTTGCTCAG}$
	86451	${\tt AGCACTGTTAGGAACGATCCCGGTATTGATCAATAAGAGTGGAGGAAGTG}$
25	86501	${\tt GGAATGAGTTTACCCATACGAGTGAGCAGCAGTGAAACGAAACAGATAAA}$
	86551	$\tt TTAGGAGGTAACCTCCCGGGGTTTGGGGAGGTGAATGGCGGTTTTTACCC$
	86601	${\tt AGTTTTACTTATTTAATAGTTAAAAAAAGCTTTAGATTTTTATCAAATTTT}$
30	86651	${\tt TATCTATTTAATATTTAAGAAAGTCGCAAATTTTTATCAGTTTATTGGTC}$
	86701	${\tt AAAGAAGTCGCAAATTTTTCTTAGTTTTTTTTTTTTGCTTAATGGTTAAAAA}$
	86751	${\tt AGCGTTAGTTTTACCTTTATTTAATTAATAAACTTCGCCACCCCCATCA}$
	86801	${\tt CCGATTCTAAGGCTGATCTGGTTAGTTTGGCACAACTAGATGATTCCTAT}$
35	86851	${\tt CAAATCTCCGACCAAACCATCCATAACACCAACCTGTTTGTGTTCAA}$
	86901	${\tt GTCCAAGGATGTGAAGCTTACATATAGTTCAAGTGGCTCAAATAACCAGA}$
	86951	${\tt TTAGTTTGATTCAACTAGTCAAGCTAACAAACCCGCCTACATCGTTGAA}$
40	87001	${\tt TTTACTAATTCCACCAACATTGGCATCAAGTGAAGCGTGGTGAAAAAATA}$
	87051	${\tt TAAGTTAGATGTGCCAAGTGTTTCAACAACCATGAACCAAGTGTTGCAAG}$
	87101	${\tt AATTGATCCTTGAACAACCTTTGACTAAGTATACGCTTAATAGTAGTTTG}$
	87151	${\tt GCCAAAGAAAGGCCAAAGGGAAGGGAGGTGCATCTGGGTTCAAATTC}$
45	87201	AAATCAGTGACGATCGATGCGTGACCAACACGGCTTAAACAACAATCCCA
	87251	${\tt GCCCAAATGCTTCAACTGGATTTAAACTCACTACCGGCAACGCATATAGA}$
	87301	AAACTAAGTGAGTCCTGACCAATTTATCAACCAATTGATGGGACCAAGCA
50	87351	${\tt GGGCAAAGGGAAGGATAGTAGTGGGTGGAGTTCAACTGAAGCAACAACGG}$
	87401	${\tt CAAAAATGATGCGCCCAGTGTTTCTGGAGGGAGATCATCAGATCAAAGT}$
	87451	${\tt AATAAATTCACCAAGTACCTCAACACCAAGCAAGCATTGGAAAGGATCGG}$

	87501	TATCTTGTTTGAAAGTAATGGAGAGGCGAGGAATGTTGTTAGCCTCCTTC
	87551	CTCTACTTTCAACCCAACAAGGTGAAAAGTGGTCAATACCAAACCACCAA
5	87601	CACCTACAACAAGTTAATTGAACCTGACAAGTGACAATCAAGTAGTGATT
	87651	TGAACAATATGACCAACTTGTTAAAACTCCTAACAACTAAAAATGTGAAA
	87701	GCAAAGTTGGGGAAGACAGCCCAATCTCAGGAAAATAGTGGGGGGGTGAA
	87751	ATGATAAAAATGTTTTTAAATAACTACATTAATTCTCTTAAACTTACTAA
10	87801	${\tt ATTATTTTCCATTTCGAACTATTATTTGAAAAAAGTTATTAATTGCAAG}$
	87851	TTGATAAAGAAAATGAAGCAAAATAACAAGAAAGAATTATCTAAATTTAA
	87901	ATAGACTAGAATTAAATTAAGACCAAAATGTTGCATGCAAACAACATATG
15	87951	$\tt CTCTTTTAGTTGTTTTTGGAATTTTATTAGTTCTAATTGGACTAGGATTT$
	88001	TTATTTTGAGCTTTAAAAATTTCACTTAAAGAACAAAAGAAAG
	88051	TACTAATGATTTGACTTCCAATAACTCACTTAAAAATGAAGTTCCTAGAG
	88101	GGAGTTGATGAAAAAGAAACAACAAATTAGTTTTATTTTTTGCTTGC
20	88151	$\tt GTTTTTTAATGCTAGGAATAGGTGGACTTGTTTCCCTTAGCTGTT$
	88201	TGGTTAATAAATTTAGTAGTTTTAAAATGCAGATTAGTTTAGTTAAAAT
	88251	CCGCAATAAGTTTAAACAAAGAAACCGTGGTTCTTTTCGTCAGTGAGTTG
25	88301	GTAAGCTTTCCAACGGTTTGATGATCCCTATTGCAGTTTTGCCTTTAGCA
	88351	GGTATTTTTTTAGGAATCGGTGATGCCATTTCTTCCAATTCATCTGGCAT
	88401	TGTTGGTGTGAAATTTTTTGGTGAATTTATTAAACAAGGTGGTAATGTAG
	88451	TTTTTGCTAACTTACCTATTTTGTTTGCAGTTGCAATTGCGATCACCTTT
30	88501	TCTCAAGATGCAGGGGTTGCTGGATTTTCTGCTTTTTTTT
	88551	AATGAACGCGTTTATGAGTTCATTAATTATTCCTGTTGATGCAAATAATA
	88601	CTGCTTCAGGTTATAACATCCTTTATTGAAAAGCAGTACCTCAGTCAG
35	88651	ATTGCTTCTACTTTAGGATTAAATTCACTTTCAACTTCAGTTTTTGGTGG
	88701	GATTATAGTAGGGGCTTTAACTGCATATTTATATAACAAGTTTTATGCAA
	88751	TTAGATTGCCTGATGTAATTGGGTTTTTTAGTGGTACTAGGTTTGTTCCT
	88801	ATTATTTGTATGACTATTGCTATTCCAGTAGCATTACTTTTATTGATGGT
40	88851	TTGACCTGGTGTTTCTATCTTATTAAATTTAATAGGAACTGGGCTTGGAA
	88901	TCTTAGGTGGAAGAGGATATGGTGCTAACAGTTTAATCTTTGGATATATA
	88951	GAAAGAGCACTAATTCCTTTTGGAGTACATCATGCCTTTTATGCACCATT
45	89001	L ATGATATACAAGTGCAGGCGGTAGTTTGCAAGAAATTGCAAATCAACAAG
	89053	L TTTGGATTAGAGCTCCTGGTAGTGATTATGTAACCAGAGTGATAGGTTGA
		1 GAAGATTTTAATACTCCAGGAAAATGAGTTATTCCTGCTGCTTTAGCTAA
		1 TGGAACAAGTGGAATGAATGGAGCTACTACAACAGGACAAGATAGTA
50		1 CATCTGCACTTTCAAAATACATGAGTAAAGAATCAACAAACTTTCTAAG1
	8925	1 TGAAAAGAACTTGTTGATGGTCTTACACGTAAAGGTAACTTTGATGAATT

	89301 GGCTAAAAACGGTTTATTAGATGGTTCTAACAAGATTTGAATTGGTTTATT
	89351 ACCAGTCAGGGATCTTAGGTAAAAAAGTACTGTTAAGTGATGGTAAGGAC
5	89401 TACACTATTACCTTTAAAACTTTTGCTAACACCACGCCAACATTCTGAAG
	89451 CCATGGTGCTCATGCACTTTTACCAATTAGTGGAACTCCAAGTGCAATAA
	89501 CTAATGGAGTTACTGTTAATGGTACTGCTAATTCTAAAACCTATAATGTC
10	89551 AGTCAGTTCACTGTTGCAGTTCCTTCTTTAAACCCAGCACAATATTCCCA
10	89601 AGGTAAATTCCCATTCATGCTAATTGGAATTCCAGCAGCTGGACTTGCAA
	89651 TGATCTTAGCTGCTCCTAAGGGTAGAAGAAAGAAGCTAGTTCTATTATT
	89701 GGTAGTGCTGCATTCACTAGTTTTCTAACAGGGATCACCGAACCTTTTGA
15	89751 ATTTACCTTTCTTTTCTTAGCACCATGGTTATTCTATGGTATCCACGCTG
	89801 TATTAGCTGCAGTAAGCTTTTGATTAATGAACTTATTGAGTGCTAACGTT
	89851 GGACAAACCTTCTCAGGTTCTTTCATTGACTTTATCTTGTATGGGGCTTT
	89901 ACCTGATGGTAGGGGTTGATTAGCAAACTCTTACTTAGTACCTATTATTG
20	89951 GTATCTTTTTAGCATTGATTTATTTCCCTACCTTCTATTTCTTGACAATT
	90001 CGCTTTAACTTAGCAACTCCTGGTAGAGGTGGTAAGTTAATTACTAAAAA
	90051 GGAATATTTAGCAGCAAAAGCAGCTCAAAAAACTGATCAAAACTACTAACA
25	90101 CTAACTTTAATCAAACCCAAATTGAAGCTGGTATGTTACTAAGAGCTTAT
	90151 GGTGGAAGTGAAAACATTGCTGAATTAGGGGCTTGCATTACTAAATTAAG
	90201 AGTAACAGTTAAAAACCCTGAACTTGTTAATGAAACTATTATTAAAGACT
	90251 TGGGAGCAGCTGGGGTAATGCGTACCACTCCAACATTCTTTGTAGCAGTG
30	90301 TTTGGTACTCGAGCTGCTGTTTATAAATCAGCAATGCAAGATATTATCCA
	90351 AGGCAAAGTAAATTGAACAGAGTTGCAAAAAGTCTTAGATAAAAATGATA
	90401 GTACTGTTGAAAAACCAGAAATAAAACCAACCCCAGTTTTAAAAGTTCAA
35	90451 GATGAAATTGTGATCCTCTCACCAGTTAATGGCACCTTAAAACCGCTCAC
	90501 CCAAGTTCCTGATGATACCTTCAAAAATCGTTTGGTAGGAGATGGAATTG
	90551 CTATCTTACCTAGCGATGGGCACTTCAAAGCACCAGGTGATGTGGGTGTG
	90601 AAAACTGAACTTGCTTTCCCTACTGGTCATGCCTTTATCTTTGATGTTGA
4 0	90651 TGGTGTGAAAGTAATGCTTCACATTGGGATTGATACAGTAAAAATTAATG
	90701 CTGATAAAAACCAGGGGAACAACTTGAAGTGTTTGATGTAAAAACAAAA
	90751 CAAGGAGAATACACTAAATTAAAGAGTGAAAGTGTTGTTGAAGTTGATTT
4 5	90801 AAAGAAACTTAAACGAAAGTATGATCCAATCACTCCTTTCATTGTGATGC
	90851 AAGAATCACTTGATAACTTCAAGTTGGTGCCAATTCGCCAACGTGGTGAA
	90901 ATTAAAGTTGGCCAACCTTTATTTAAACTAATTTATAAAGATAAGAAGAG
	90951 TTAATCAATAAAACTCGATAATAACTAAAAGCCATAAAACCTTGGTTTTG
50	91001 TGGTTTTTAGCTTGTTTATAACAATATTATTGCAGTTTTACTGCATAATG
	91051 TAAAATTACACAGCATGTCAGATACAAATACTGAAAAACCTGAGTTAGTT

	91101	TCCCTTAATAAGTTAAGTGAGATGCGCACTAACATCGGGATGGTTAAACG
	91151	TTATTGAAACCCAAAGATGGGATTCTTTATCGAACCTGAACGTAAGCATA
5	91201	ATAACGATTTATTGAAGCTTGATCTACAGTACCAAGCGTTAAAAACTGCT
	91251	TATAACTTCATTAAGGATGTTGTTAAAAATCACGGACAAATCCTTTTTGT
	91301	${\tt TGGAACAA}{\tt GAATGATTATGTTAAAAAACTGGTAATTGATATTGCTAAAA}$
10	91351	${\tt GAGTTAATGTTGCATATATTACCCAGCGCTGATTAGGTGGTACTTTAACT}$
70	91401	AACTTTAAAACCCTTTCTATCTCAATTAACAAACTCAATAAATTAGTTGA
	91451	ACAGCAAAAGCAAAATGCAAATGATCTAACCAAGAAAGAA
	91501	${\tt TTTCAAGAGAGATTGAAAGACTTGAAAAGTTCTTTGGTGGGGTCAAAAAT}$
15	91551	${\tt TTAAAAAGACTTCCTAATCTAATAGTTATAGATGATCCTGTTTATGAAAA}$
		${\tt AAATGCAGTTTTAGAAGCAAACAGCTTAAAAATCCCTGTTGTGGCACTAT}$
		GCAACACCAACCCAATCCAGAGCTAGTTGACTTTATTATTCCAGCTAAT
20		AACCACCAAACCCCAAAGTACTTGTTTATTGATGAATTTACTAGCAGATGC
		GATAGCAGAAGCGAAGGGTTTTGAAACCTTGTATGCTTACAAACCAGATG
		AACAGATCCAAATTGAAATTCCTCCCAAACAAGAACGCCAAGTTATTAAC
		CGTTCCAATACCAGAAACATCACTAACCAGCGCTTAAACATTAACCGTCA
25		ACAACAAGAAACTTTATAGAGCAGTGAACAGTTGAACAGGACTTAGTGAA
		CAAGCGGCAATTAAAAGTCGTCAAGAACATGGTGCTAATTTTCTTCCTGA
		GAAAAAAGCTACCCCTTTTTGGTTGTTATTTCTTCAACAATTTAAAAGTT
30		TAGTTGTTATTCTTTTACTGCTAGCTAGCTTGTTATCGTTTGTAGTTGCT
		ATTGTCAGTGGTTTGAGAAGTAACTGAAACTTTAACCATGATCTGATTAT
		TGAATGGGTTCAACCTTTTATTATCTTATTAACTGTTTTTTGCCAATTCAC
		TAATTGGTTCTATCCAGGAATTTAAAGCCCAGAAATCTGCTAGTGCTTTA
35		AAGTCCTTGACAAAGTCTTTCACAAGGGTTTTTAGGAATGGTGAATTAAT
		TAGCATTAATGTTAGTGAAGTTGTTGTAGGAGATATTATTTTTGTTG
		CAGGAGATATTATCCCTGCTGATGGCAAATTACTACAGGTTAATAACTTA
40		CGTTGTTTGGAAAGCTTTTTAACTGGTGAATCAACTCCAGTTGATAAGAC
		TATTGATAGCAATGAAAAAGCTACTATTCTTGAACAGACAAACTTAGTTT
		TTTCAGGGGCACAAGTAGTTTATGGTAGTGGCGTTTTTCAAGTGGAAGCA
		GTTGGGATTAAAACCCAAGTTGGAAAAATTGCTAAAACTGTTGATGATAG
45		TGTAACTAAACTCTCACCCTTACAACAAAAACTAGAGAAGATAGGAAAGT
		GATTTAGTTGGTTTTGGGCTTGGTCTTTTTGCTGTAGTTTTTCTTGTCCA
		ACTGCTTTATTAGGATTTGATAATTTCACTAATAACTGATCAATAGCTTT
50		AATTGGTGCTATTGCGCTTGTTGTTGCAATTATCCCTGAAGGGCTTGTTA
		1 CTTTTATTAATGTGATCTTTGCATTAAGTGTGCAGAAACTAACT
	9285	1 AAAGCCATTATTAAGTATTTATCAGTAATTGAAACACTTGGATCAGTACA

	92901	${\tt AATTATCTGTACTGATAAAACTGGTACTTTAACCCAAAACCAGATGAAAG}$
	92951	${\tt TTGTCGATCACTTCTGTTTTAATTCAACAACCCAAACTGATCTAGCAAGA}$
5	93001	${\tt GCATTGTGTTGTAATAATGCTTCTATTTCCAAAGATGCTAATAAAAC}$
	93051	${\tt AGGTGATCCTACTGAAATTGCTCTCTTGGAATGAAAAGATCGCAGTCAAT}$
	93101	${\tt TAGATTTAAAAA} CCTATTACAGGGTTTATGAAAAAGCCTTTGATTCAATC$
10	93151	${\tt AGAAAACTTATGACAGTTGTTGTTCAAAAAGACAACCGCTTCATTGTGAT}$
. •	93201	${\tt TGTTAAAGGTGCTCCTGATGTGTTATTACCATTATGTAATAACGTTCAAA}$
	93251	${\tt ATGAAGTAAAGAACATTGAAAACTTACTTGATCAAAGTGCTGGTCAAGGC}$
	93301	${\tt TTGCGTACCTTAGCAGTTGCTTTAAAGGTTTATATAAGTTTGATCAAAA}$
15	93351	${\tt CGATCAGAAGCAAATTGATGAACTTGAAAACAACCTTGAATTCCTTGGGT}$
	93401	${\tt TTGTTAGTTTACAAGACCCACCAAGAAAAGAAAGTAAGGAAGCGATTTTA}$
	93451	${\tt GCGTGCAAGAAAGCTAATATAACCCCAATAATGATTACAGGGGATCATCT}$
20	93501	${\tt TAAAACTGCAACTGTAATTGCTAAAGAGTTAGGCATTTTAACTTTAGATA}$
20	93551	${\tt ATCAAGCAGTTTTAGGTAGCGAACTAGATGAAAAGAAGATCTTGGATTAC}$
	93601	${\tt AGGGTATTTGCTAGAGTAACTCCCCAACAAAATTAGCCATTGTTAGTGC}$
	93651	${\tt TTGAAAAGAAGCGGGATTTACAGTTAGTGTTACTGGTGATGGGGTGAATG}$
25	93701	${\tt ACGCACCTGCATTAATCAAGAGTGATGTAGGGTGTTGTATGGGGATTACT}$
	93751	$\tt GGGGTTGATATTGCAAAAGATGCTAGTGATCTGATTATTAGTGATGATAA$
	93801	${\tt TTTCGCTACTATAGTAAATGGTATTGAGGAGGGTAGAAAAACTTTTTTAA}$
30	93851	${\tt CTTGTAAACGAGTTTTATTAAACCTGTTTTTAACTTCAATTGCAGGAACA}$
30	93901	${\tt GTTGTAGTTTTATTAGGACTATTCATCTTAGGACAAGTTTTTAAAACTAA}$
	93951	${\tt TTTATTACAACAAGGTCATGACTTTCAGGTGTTTAGTCCTACCCAACTGC}$
	94001	${\tt TAATTATTAACTTGTTTGTTCATGGTTTTCCTGCTGTTGCATTAGCAGTA}$
35	94051	${\tt CAACCTGTTAAAGAAAATTGATGGTAGGTAGTTTTTCTACTAAAAATCT}$
	94101	${\tt GTTTTACAACCGCCAGGGATTTGATTTAATCTGACAATCACTATTCTTAA}$
	94151	${\tt GCTTTTTAACTTTATTGTTCTATAGCTTAGGAATTATATATGCAATTAAT}$
40	94201	${\tt AACCGTGATTTACAAACTAGCGGGGGATCTAATTAATCGTGCTGGATCAAC}$
4 0	94251	$\tt GTGCGGTTTTTTTTTTGGGTGCTAGTGCTGCTTTAAACTCATTAAACC$
	94301	${\tt TAATGGTAGATAAACCATTGCTTATGACAAACCCTTGGTTTTTAAGTTA}$
	94351	${\tt GTTTGAATAGGTTCACTTGCTTCTATACTGGTATTTTTATTGATCATCTT}$
45	94401	${\tt TATCAACCCTTTAGGGTTAGTGTTTAATGTCTTGCAAGATTTAACTAATC}$
	94451	${\tt ACCCAGTTTAATAAGCTATAGTTTTGGGGGAGTTATTTTGTATATGGGG}$
	94501	${\tt ATGAATGAAGTTGTTAAACTTATTAGATTAGGTTATGGCAATATTTAACT}$
50	94551	${\tt TCCTTAAGTTAATTTCACCCAAAAACAGAATTCTCAGTAAGGCAAATAGG}$
50	94601	${\tt ATTGCCAGTGAGGTTGAGAGTTATAAAAACTACTGCGTAACTTAACTGA}$
	94651	${\tt TCAACAGTTATTTGAAGAGTCAAATAAACTAGTTGATCTTGTCACTAAGC}$

	94701	AAAATTACACCATTCTAGATGTTTGTGTTGCTGCACTTGCTTTAATTAGA
	94751	GAAGTGGTTTACCGTGAGACTGGTGAATTTGCATATAGGGTGCAGATCAT
5	94801	AGGAGCTTTTATTGTTTTAAGTGGTGATTTTTGCTGAGATGATGACTGGTG
	94851	AAGGTAAGACCTTAACCATTGTTTTAGCAGCATACGTTTCTGCACTTGAA
	94901	AAGCGTGGTGTGCATGTTGTTACTGTTAATGAATATCTAGCTCAAAGGGA
10	94951	TGCTAATAATGCAATGAAGATCTTAAAACGGGTTGGGATGAGTGTCGGTT
10	95001	GTAACTTTGCTAATCTCTCCCCTCAGCTAAAACAAGCTGCATTTAATTGC
	95051	GATGTTACCTACACCACTAACAGTGAACTGGGGTTTGATTATCTTAGAGA
	95101	TAACATGGTCCACAGTTATCAAGATAAGAAGATCAGAGAGTTGCACTTTG
15		CAATAGTTGATGAAGGTGATTCAGTTTTAATTGATGAGGCGCGAACGCCT
		TTAATTATTTCAGGTCCTAGTAAAAATGAGTTTGGGTTATATGTTGCAGT
		TGATCGATTTGTTAAATCATTAACTGAACAGGAGTTTAAGATTGACCCTG
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20		ACATTTAAAAAAGAAAACCTTTTTGCTTTGGAAAACAGTGATCTTTTTCA
		CAAGATCATGAATGGTTTGACTGCTGTGAAAGTTTTTGAACAGGGCAAAG
		AGTACATTGTTCGTGATGGCAAGGTTTTAATTGTTGATCACTTTACAGGT
25		AGGATATTGGAAGGGAGAAGTTACAGTAATGGCTTACAACAAGCTGTACA
		AGCCAAAGAATATGTTGAGATAGAACCTGAAAATGTGATAGTAGCTACCA
		TTACCTACCAATCCTTCTTTAGGCTATACAACCGCTTAGCAGCAGTATCA
01		GGTACTGCTTTAACTGAATCAGAGGAGTTTCTCAAGATTTATAACATGGT
30	95701	TGTAGTACCAGTGCCAACTAACCGTCCTAACATCAGAAAAGACCGTTCTG
		ATAGTGTATTTGGTACCCCACAAATTAAGTGAATGGCAGTTGTTAAAGAG
		ATAAAAAAGATCCATGAAACTTCTCGACCTATTCTGATTGGAACTGCTAA
35		CATAGATGATTCTGAACTCTTACATAATCTGTTACTAGAAGCTAATATTC
		CCCATGAGGTTTTAAATGCTAAAAACCATTCAAGAGAAGCGGAGATAGTA
		ACTAAAGCAGGACAGAAGAATGCAGTTACTATTTCAACTAACATGGCTGG
		AAGAGGAACTGATATCCGTTTAGGTGAAGGGGTTGCTGAAATGGGTGGTC
4	96051	TTTATGTATTGGGAACTGAAAGAAGTGAGTCAAGAAGGATTGATAACCAA
		L CTAAGAGGGAGAGCTGCTAGACAAGGTGATAAAGGGGAAACTAAGTTCTT
		L TATCTCACTAGGTGATTCATTGTTTAAACGTTTTGCTCATGACAAGATTG
45	-	L AAAGAGCGATTAGCAAATTAGGTAATGAAACATTTGACAGTGCCTTCTTT
		1 TCCAAAATGTTAAGTAGAACCCAAAAACGGGTGGAAGCAATTAACTTTGA
		1 CACTAGAAAAACCTGATTGATTATGACCATGTTCTTGCAAGTCAAAGGG
50		1 AATTGATTTACAAACAACGTGATAAGTTTTTATTAGCAAACGATTTAAGT
		1 GAAATGATCGACAAAATGCTAGAAAAGTTTGTACAACAGTTTTGTGATCA
	9645	1 ATATAGAAACCAAAAGAACCAAAACTTAATTAATCACATTGCACTAGCAG

	96501	${\tt AAGCTTTAAATCTTGAGATGAACATGCAAAACACCATTAATCCAAAGGTG}$
	96551	${\tt TTTGAAAACATGACTTTTGATGTTGCTGTTGATAAAACCCGTAACTTAGT}$
5	96601	${\tt AGCTAAAAAGATTAGTGATAAAGTTAATGTTTTGACCAAACCAATTGCTT}$
	96651	${\tt TAAACAGGTTTCGTGACATTATCATAACTTCGATGGATAAACATTGAACT}$
	96701	${\tt GAACACTTGGATAGTGTTTTTAAGTTAAGAGAAGGGGTTGTACTTCGTTC}$
10	96751	${\tt TATGGAACATACGAGTCCTTTAAATGTTTACATTAAAGAAACAGATATCC}$
	96801	${\tt TTTTTAAAACAATGTTGCAAAAGATTGCTCAAGATGTCATTGTGCAAATT}$
	96851	${\tt GCTAACCTCACAACTCCAGATGAATTTGATCATAGCTTAATGCAAGCCAA}$
	96901	${\tt TGCTTTAAAGAAACTAGCAGCAATTAAAGCAGATGAAAAATCAAACCAAG}$
15	96951	${\tt AGTAATAGTTTATTTCAACTTTCCACTAACTATATACCTACTGGTGATCA}$
	97001	${\tt ACCTGAAGCAATTAAGAAATTATCAGAATTTAAAACTAAGCAGCAGGTTT}$
	97051	${\tt TATTGGGGGCCACAGGCACAGGTAAAACCTTTACAATTGCTAATGTAATT}$
20	97101	${\tt CAAAACAGCCAACTCCCAACAGTTGTTATTGCTCATAACAAAACCCTAGC}$
	97151	${\tt AGGTCAACTCTTCAATGAATTAAAGCAACTGTTTCCTAAAAATGCAGTTG}$
	97201	${\tt AATATTTTATCTCTTACTTTGATTTTATCAACCTGAAGCTTACTTA$
	97251	${\tt AGTAAAGGGATCTACATTGAAAAAAGTGCTACAGTCAATGAAGCGATTAA}$
25	97301	${\tt ACGCTTAAGAGTCTCAACACTGCATTCACTTTCAACAAGAAAAGATGTTA}$
	97351	${\tt TTGTAGTAGGTTCTGTTGCTAGTATTTATCCCACCTCATCTCCCAGTGAT}$
	97401	${\tt TTTGTTAAGTATTGCTTGTGGTTTGTGGTTGGCAAAGATTATGATTTGAA}$
30	97451	${\tt AACCATTAAAGATAGGTTAGTTAGTCTTAACTATGTTGTTAATAAACAAC}$
	97501	${\tt AATTAACCCCAGGAAAATTTCGCTTTCAGGGTGATGTTTTGGAGGTATTT}$
	97551	${\tt CCTGGTTACAGTGATGCTTTTGTGATCAGAATCTCCTTTTTTGATACTAA}$
	97601	${\tt AGTAGAACAAATTGTCAAATTGACCCACTAACAAATAAGATTTTAAACC}$
35	97651	${\tt AACTCTTTGAGATTAAGATAGGTCCTGCTGATGAATATGTTGTAAACCAA}$
	97701	${\tt TCTGATCTTGATATAGCAATTAAAAAATATTAAACAAGAACTTCAGGAACG}$
	97751	AGTTAATTATTTCAATAAGCAAAATCTTGTTGAAAGAGCACAACGTTTAG
4 0	97801	CCACCATTACTAACCATGATCTCAATGATCTGAAGGCTTGGGGATTTTGT
	97851	${\tt AGTGGAGTTGAAAACTATGCTAGACACTTAGAGTTGAGGATGGCTAACTC}$
	97901	AACCCCTTACAGTATCTTTGATTATTTTAAGGGGGATTGGTTACTGGTTA
	97951	TTGATGAATCACACCAAACTTTACCGCAACTTAATGGGATGTATAACACT
45	98001	GATCTTTCAAGAAAGCAAAGCTTAATTGATTATGGTTTTCGACTCCCCTC
	98051	TGCACTTGATAACAGACCGCTCTCATTTGCTGAATTACAACAAAAAATGC
	98101	AAAAAGTTATTTATGTTTCAGCAACTCCAAGAGATAAAGAGATTAGTTTA
50	98151	AGTCAGAATAATGTCATTGAACAGTTAGTTAGACCAACTTACTT
50	98201	TCCTATTATCGTTGTTAAACCAAAAGATAACCAGGTGGAGGATCTCATTG
	98251	AAGAGATTATCAACCAACGCCAAAACAACACACAAGAACATTTGTTACTGTT

	98301	TTAACTATTAAGATGGCTGAAAACCTCACTGAATACTTAAAGGAACGCAA
	98351	AATTAAAGTTGCCTATATCCATAAGGACATTAAAGCATTGGAACGTTTAT
5	98401	TGTTAATTAATGACCTGAGAAGAGGTGAATATGAGTGTTTAGTTGGGATT
	98451	AACCTTTTAAGAGAAGGGTTAGATGTCCCTGAAGTTGCTTTAGTTTGTAT
	98501	CTTTGATGCAGATATCCCAGGACTACCTAGGGATGAGAGAGTTTAATCC
	98551	AGATTATTGGACGTGCTGCTAGAAATGAACATGGTCGAGTTGTTATGTAT
,	98601	GCTAACCATGTTACTGAACAGATGCAAAAAGCCATTGATGAAACCAAAAG
	98651	AAGAAGAACTGTTCAAATGGAATATAACAAGCTACATAATAAGACACCAA
	98703	AAACAGTTGTTAAACCCCTTACCTTTGTTCAACCAATCAAATTAAAAGCT
		AAGAGTAATGCAGAAAAAATGCTGCATTAATCAAACAATTAACCAAAGA
	9880	AATGAAGAAAGCAGCAGCTAATCAAAATTATGAACTTGCCATTGAGATTA
		L GAGATTCCATATTTGAATTGGAAAAAGAAATTGGTAGTAAAATTAAAGTA
	20	L TAGCAATGCGACAGTTTATTAAGCTTAGCCTCTTAGTCTTTGTCTTGCTT
	²⁰ 9895:	TTCTTAAGTGAACTTATCTGTAGGTTCTCTTTACGCTTAGTAAATTCTAT
		1 TAAAGCGAGATATAAATCTTCAGTATTTTCCTACACTGCTTGTTTGCTAT
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		1 TGGGTATTTTGATTTGAAAATGATGTTAATGAACTGTTATCTATC
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		1 GTTATAAAGTTACTGCTCAAAAAGTAGTTGAAAAAGAACAGTTATTAACT
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		1 CAGGTTCCAAATACCATTCCGLTACACCAAACTGTGGTTGAAGTGACCAA
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		1 CTAAAAGTGCGTTAAATAATAAACTCCAAGTTGAGTTTGATAAGTTCTTG
		1 TTAAGAACAGGAGTGATTAATGCTTTAAATGCAGATTTGAAAGAATGGAT
		1 AGACCAAACATTATTTATCCCCAATCAAAGTTTTTTTGATCTTAGTGCTA
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		GAGTTTATTTTTACTAACTTTAGTGATAAAAATCAACCATTAAAACTCCC
		OL CTTTGATGGTAGTGGTGGTTAATGCTAACGAGTCATACACCTATTCAG
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	10000	OL CATTCTGTAGGGATTAGTTATGCAATACCAACAGTGAGTTTAAATGGCAA
	1000	51 AACTCAAAATGACTTTAGTTTTAACCCCTTTAAAAGTAATATTAACTTTC

	100101	${\tt CTTTCAAAAATGTCTACAATGCTTTAAATCCGTTTGAAGCACAACAATAC}$
	100151	${\tt CTGGTTGGCCAAGGTAAGTTTTAAACCAAAAAGTTAATGCTGATGATGT}$
5	100201	TAAAAATGACATTAATAATCACATTGAAACCCAGTTTAATGTTGCTAAAA
	100251	${\tt TCACAGCAACTCTTTTAGGAAAAGCTTTTAAGCAGTTTGGTGAACATAAA}$
	100301	${\tt AATGGTCAACCACTTTCACTTTTAAAAGTACTAAGTGGATTAAACAATGA}$
10	100351	${\tt GTTTAAACAACTCTTTAATTATGTCAGACCTGGTTTAGGTGATTTTGTTA}$
	100401	GTGATTTAATCCAAAGCTCCAGTCAATCAAGTAATAAAAAAACTGTTTAC
	100451	${\tt CAGCTATTATTTGAAAACAAGACAACAATTATCCACTTGTTGCAAGATCT}$
	100501	${\tt TAATATTAGTGAACTGAACTCTGTTTTACCAGTTGTTGATATTTTGTTTG$
15	100551	${\tt AAGGGATTAACAGTGCAGAATCACTATACCAAAGGATCCAATCATTTAAG}$
	100601	${\tt GATTTAATTGTTCCTGCTTTAAAAGCTGATAAGCAACTTAAGAGCTTAGA}$
	100651	${\tt AGCGATTATTTTAGCAGTTTTAGACAATCCTAATACCTATGTTTTTGATC}$
20	100701	${\tt TTGTTTACCAAAACAAATCGATTCTGTTTAATTTGTTAAGTGATTTTCTT}$
	100751	${\tt AAAAACACCGCAAACACTTTACCATTTCTTCAAGAACAGTTTGATATTGT}$
	100801	TAACCACTTATTTGCCAATGAAGCGATCTTTGATCTGTTTTCCAATGCTG
	100851	${\tt ACTTTGTTGAGAAGATTGCTGATCTTTTTTTAGCAAAACAAAAGGTACAA}$
25	100901	${\tt GAAGTTAATAATGATGGAACTAAATCAACAAAAATTGTTGATTCGATTTT}$
	100951	${\tt AGTTGCTACCCTTAAGGGTTTAGTTGGTGATCAGCTCAGTTCAATCACTG}$
	101001	${\tt AACTGTTAAACATCTATATCTTTGAAAATGAATTTTTAAACAGAAATGAT}$
30	101051	${\tt AGTAATAGTTCAGTTAAAAAAACAACAACTGATAGTCTAAAAAATCTGTT}$
	101101	${\tt TAGCGTAATTGGTGATATTTTAAGTGAGACCAATGTTAACAAGATCACTT}$
	101151	TACACGCAGTTAAAAATAATGAACTTCTTTCGTTAGTTGAAACAGCTTCA
	101201	ACACTAAAATTAAACATCTTAATGTTCAATACAAAGTTTTAGTTGATAA
35	101251	GTTTGAATTGAAAACAGTTTCATTAAGGAACTATTAAATTTTTTCCCAG
	101301	ATACTAAAGATATCACCCCAACTATTAAAAAGGTACTGTTTGAAAGTGAA
	101351	AATTATAAAACACTCCGTAAGAAGTATGAAAATGAAGGGTTCCCAGGTTA
40	101401	TCACTGGGCTAAGTTCATTGTCCCAGGTACCTTCAATTCTGCTGAAAACA
40	101451	CTTTCTATTCTGCTATTGATAAAACTAAATCAATTCGCGATCTGTTTGCT
	101501	GACATGTTATTTGGTAAGAGTTTAGAGAGTGTTAATGACAGTGATAGTTT
	101551	TATCAAAATTAATGGTTCATTTACATTAAAGTACCACGGTGATAACTTAA
4 5	101601	ATTTACTCCCTAACTACCACTCATTAATCACTAAGAATGTTGGTTATCAA
	101651	ATAGTTAATTTTCATATTGATGCAAGATTGCTAACTGCAGAACT
	101701	ACAAAACACGGTATTTTCAAATCCAAAACCAGTTATTAAATCACCTGTTG
50	101751	AACTCTCCAAATCCTTATTTGAAGTTTGAAAGACTATCTTTGAAAACTCA
50	101801	GTTAACCAAATCTTAAAAAAAGAATATCTTTCAAAGATAATCTAAAGTT
	101851	CTTTCCTTTTAAAGCTGATGGCTCCTCGCGCTTAGAATTTGATCTATCAA

	101901 AACCTGATCAACGTGTTATTCCTTTTGCTTTTGTTGATGGTTATCAATTC
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	102001 TTCTTCACCAGTTTTAAAGCTTTATGATGCAGTTAAAAGAAACGATAGAC
	102051 AATATCGTCCTAATCACCACCATGATGATCTGAGAAACTATCCTAGCCTT
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	102501 CAATCAAGTTCATCCACCAAAACCCACTAGTTTTTTGTCTGTAAGTTGCA
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	102601 ACCTAACTTAAGATATCTGTTAAACTTACTAATTTCATACCGCATTCCAT
	102651 CACAAGTTTTTAAACGGAATATCCCCTGTAAACAAACAAGTAATAAGTTA
25	102701 ACAAAAAAGCTAGTTAGTACTGAATTTTTAACAACCACTGTAAAATTGGT
	102751 TGACTTGTGAAAATAAATAGTAATGTTTAAGATCAAAAAGAAAAGGATTA
	102801 GATAAAATACGCTAACAACTATCCCACCATACTCAGCTTTATTACTGTTT
	102851 TTGTTTTGATTTAAAACCATCTAGTAATCGTTATTAGTATCATTTTTTTA
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	103001 TTAGATTTAGAAGCTGGTTACTTTTGTTTCAGGTAACCAGTACCATTTCC
35	103051 AAAAAACTGAGAACCTGAAAAAAACAGGTTCTTTTTTTATTTCTATTTAG
	103101 TAAATGTTCAAGTATATTCTTAAACGATTAGGACTAGCAGTAGTTGCGAT
	103151 GTTTATCGTAATGTCTATAGTCTTTTTTAGTGAACGCTACTGGTAATG
	103201 TTCCCTTGTCAGCCACTTCTGCAAGAGATATTGCTGCAGTGCAAGCACAA
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	103301 TTGAGCTAAGCTATTTTCCTTTCAAGCTGATGCTTTAGGAATTTATTATG
	103351 CAAACCCTAACCAAACAATTGGTGAGATTGTGTTTGCAAGAGTACCAAAT
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	103551 GGATTAGGGTTACTTAAACTAGCAGGATTTTTAAATCTACCACCACGGTT
50	103601 TATTAACTTTGATGATGCTTTTTTTAGCTTTGATCGTTTCTTGCTTG
	103651 CAATTATCCCGATCCTTTCATTGGTCTTCTATTCATCAGCTGCTTTTACA
	100077 C.M. 1000

	103701 TACAGGATTAGAAATGAGGTGGTGGAAGTGATGAATCAAGACTATATTAA
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	103851 TCAGGTGCTTTTTCAGGTGGATTTATTATTGAGTCTTTGTTTG
	103901 AGGGGTATCTAGGATCTTAATTGATTCAGTGCAAGTTAATGAAACTAACA
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10	104001 GTCTTTATTGAATTTATCTATGTTTTAGTTGATCCTAGAATTAGGATTGC
	104051 AAATAGTTCTAATGTTAGCTTATTAACTAAGTTAAAGTTCTTAAGTTCAA
	104101 GACACCAATGGTTAATGAAGTGAAACAAGATTAACAGTGATAATGCCCAA
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	104201 AATTGATTACAAAACAAAAACAGTTCAACTAACAACTGAACAAAAAAACTG
	104251 CTCTCAATATCAGTGCAACTGCTAACTTTATCTTACTTGGTAACAAGTGT
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	104401 GGTAAACCAACTACCAATTCAATAGAAATTATCAAGCGCTTGTTTCAAAA
	104451 CAAGTGGGCCATCTTATTTTTTTTTTAATAGTTGTTATTGTGCTATTAG
25	104501 CAATTATTGTGCCTTTAACTTCCCCTTTTTCAGCAGTAACTCCTGTTTCA
	104551 ACCAATGCCTTAGCACAAAATCTACCACCACGGTACTTATGGCATAAACC
	104601 AGGTGACATTTTAGTTCATAAGATTACAGCAAGATCAATTGCTGAAATCT
00	104651 CTCAAGCTAGTGGAGTTTTAGTAGGAACATTACCTAGTGCAAATAGTAAT
30	104701 CCCTTAGCAACTAATGTCCAGTATGATATTGCTCCTTTTCAACTCCAAGA
	104751 ATTGCGTAATTATTTCCCTTTATTGGGGACTAATGGACTTGGGATTGATA
	104801 TTTGAACCTTGTTGTGAGCTTCTGTTGCCAAGTCATTGTGAATTGCAGTA
35	104851 GTAGTAGCAATTATAGCAATGGTGTTTGGAACCATTTATGGAGCGGTTGC
	104901 TGGAAGCTTTGTTGGACATATGGCTGATAACATTATGAGTAGGATCATTG
	104951 AGATTATTGATATAGTCCCTTCTATTCTTTGAATTATTGTCTTAGGAGCT
40	105001 ACATTCCGCTTTGGTGGGGTTAAACAATTTGATGATAGTGTTGTAATCTT
40	105051 TACTTTAATCTTTGTGTTTTGAACATGACCTGCTACTACAACCAGAATTT
	105101 ACATTTTGAAAAACAAAGATACAGAGTACATCCAAGCAGCTAAGACCCTA
	105151 GGGGCACACCAAATCAGAATTATCTTTGTTCATATGTTACCTGTTGTATT
4 5	105201 TGGGAGATTAGCTGTTGTTGTTAGTTTAATCCCAGCAGTTATTGGTT
	105251 ATGAAGCTTCCTTAGTTTTCCTTGGGTTAAAACCAGCTACTGATATTGGC
	105301 TTAGGGGCACTTTTAAACCAAGTAACTTCAAGTGATAATGTAGCTTTAAT
50	105351 CTTAAGTTCGATTGTTAGCTTTGCAGTTTTAACAGTAGCAGCTAGAACAT
50	105401 TTGCTAATGCTTTAAATGATGCAATTGACCCTAGGGTTGTAAAACGATAA
	105451 AATGGCACTTAAAAGAAGTAATTTCTTTGTTGATAAAGACCAACAACTAA

	105501	AGGATAATTTGATCTTAGACATCACTGATTTACATGTTAACTTTAAGGTT
	105551	AAAGATGGGATCTTACATGCTGTTAGAGGGATTGATCTTAAGGTAGAGAG
5	105601	GGGTAGTATTGTAGGGATTGTAGGTGAATCAGGCAGCGGTAAATCAGTGA
	105651	GTGTTAAATCAATTATTGGTTTTAATGACAATGCACAAACTAAAGCCAAA
	105701	CTGATGAACTTTAAAAACGTTGATATTACCAAACTAAAGAAACACCAGTG
40	105751	GAAGTATTATAGAGGGACATATGTCTCTTATATTTCCCAAGACCCATTGT
10	105801	TTTCTCTAAACCCAACAATGACGATAGGAAAACAAGTAAAAGAAGCGATT
	105851	TATGTGGCTTCAAAAAGAAGGTATTTCCAAGCTAAATCAGACTTAAAATT
	105901	${\tt TGCTTTATCAAATAAGGAGATTGACAAAAAAACTTATAAAAGTAAACTAA}$
15	105951	AAGAGATCAAACAAACCTACCAACAAAAAATAAAACCTATCAATGTAGAG
	106001	${\tt AAAAAACCTTAGAGATCCTGCAGTTCATTGGTATTAATGATGCCCAAGAA}$
	106051	${\tt ACGTTTAAAGGCATTCCCAAGTGAGTTTTCAGGAGGGATGAGACAGAGAA}$
00	106101	${\tt TTGTGATTGCTATTGCAGTAGCAACTGAACCTGATTTAATTATTGCTGAT}$
20	106151	${\tt GAACCTACTGCACTTGATGTAACTATTCAAGCTAAGGTATTAACTTT}$
	106201	${\tt AATTAAACAACTCCGTGATCTACTTAATATCACTATTATCTTTATTAGTC}$
	106251	${\tt ACAATATCTCTTTAATTGCTAATTTCTGTGACTTTGTTTATGTTATGTAT}$
25	106301	${\tt GCAGGGAAAATTGTAGAACAGGGTCTGGTTGAAGAGATCTTTACAAATCC}$
		${\tt ACTCCATCCCTATACATGGGCATTGATTTCTTCAATTCCTGAACAGAAAG}$
	106401	ATAAAAACAAACCACTAACTTCTATCCCTGGAGTTATTCCTAACATGTTA
	106451	ACCCCACCAAAGGGTGATGCTTTCGCTAGTAGAAACCAATATGCTCTAGC
30		AATTGACTTTGAATACCATCCACCCTTTTTTGAAGTTACTAAAACCCATA
		AAGCAGCAACTTGATTGCTGCATCCCCAAGCCCCTAAAGTTGAACCACCT
		CAAGCGGTTATTGATAACATTACCTTAACCAAAAAAGCACTGCAATTTAA
35		AGATCAATAATGGAAAACCAAAAACACAAAAAAACCACTTGTTAATGTTAA
		GGCTTTGAGCATGATGTTCAAGGTCAGAGGAACTCTTTTTAAAGCCCTTG
		ATGAAATTGGTTTTACTGTTAATGAAGGGGACTTCTTTGGGGTTATTGGT
		GAGAGTGGTAGTGGTAAATCAACCACGGGAAAATGTTTGATTAGATTAAA
40		CATTCCTAGTGGTGGAAAGATTGAGATTGCCAACCACTTACTCTCAGGAA
		AAAAACTTACTAAAGAGAATAACCAGTGGTTAAAACAAAACATCCAAATG
		. GTGTTTCAAGACCCTTATTCATCTATTAACCCTACTAAAAATGTGCTAAC
45		TGTGATTTCAGAACCGCTGGTAATTAGTAAAACTGTTTTTGGGGAAACAA
		. AACAATACTTAAAGAGTTTGCAAAAGCTCTCTTTTAAAGTAAAGAAAAACA
		TTGTTAAGGAATGATATTGAACTTGAAACCAAGTTTCACAATAACTTTTT
		TAAAACCGTTATTAAGCAAATTAATGAATCATTGTTTAACTTTGAAGATC
50		TTGATTACAAGGATTTAAAACCATCACATTTAAGGCAAAGAATCATAAAT
	107251	GAAACAGATAAATTCATTGAAAAAATTAGAAGTGAGTTTGCCCTTTTTTA

	107301	${\tt TGATTTTATGCTAACCAATCAGTACCCTTGCAAAAGGCATTAGATGATG}$
_	107351	${\tt CGAATTCCTCTTTAACACCATCTAGTGTTATTGAGTTAAAAAAACCAGTTA}$
5	107401	${\tt AAAGCATTACAAAAACAAGCAAAGATTTCAAAGGCAGCATGGGATATTTT}$
	107451	${\tt ACAAGCCCTAAAGCAAAACCAAAAGGAGTTGAAAGATTATGAAAATTATG}$
	107501	${\tt TCCATTTTGAACTCCAAAAAAAGCCACGAATCTATCTTAATACCTGACTT}$
10	107551	${\tt TTAACAACCAAAAGCTACATTAAAGATTCCAAGCAAAACATGCAGCTTAC}$
	107601	${\tt TGATGATATCTTTGCTTTTTCATATAACAGTATGGTTGACAAGAAAAGAA}$
	107651	${\tt ACTTGGTTTTAATTCTTTCTAAATACTATAAGCTGTTACCTTATTTCTAT}$
	107701	${\tt GACCAATCAGTATTTGATAATGCTGATCAATTTGATGAAATTGCTAACCT}$
15	107751	${\tt TATCTTTTTGATTTAGTTGAAACATTGCTTGGTGTAACTAGTTTATTTA$
	107801	${\tt ATGATGCATTAGCAGCTGATAAAGTCCCACTAATTAAGTTTGCTAAGTTC}$
	107851	${\tt TTAAATAAGTTATGTGACTTGCGCTTTTTAACCTTAAAAAAGAGCTTTAA}$
20	107901	${\tt AAAAACAAGAGTAAGTTGTAGCTTTAGTTTTAACAGTGAACCTGAAATCT}$
	107951	${\tt TGTTTGCCAACAGCTGCTATGATTTGCAACAAATGCCTCAAATCATTAAA}$
	108001	${\tt CCCTTTTGAGAGAGCTTTTTAATGAACAGAACTACCAAAAGATTATTGA}$
	108051	${\tt TTCAGTTTCAAGACTGAATGTAATGATTGCAAATTACATTACCAAAGCTT}$
25	108101	${\tt TTGAAATTAAAAAAACTATTGATGAAAAACTAAGGGAGTTTAAACAACAA}$
	108151	${\tt AATTTAGCTTTAAAAAAAGCTTATTCAGCTAACAAGAAAAGTGAGGCAAA}$
	108201	${\tt CAAAGCTTCCATTAATGAGTTAAAAAGTCAATTTAAAAAACACTTAAAAAACCCTTAAAAAAACCCTTAAAAAA$
30	108251	${\tt AGCTTAAACAAGAGAAAAATACTACTAAAAAAACAATCAAAAAAAGGAATTA}$
	108301	${\tt AAACCACTTTTAAAAGAACACCATACTGCTTTAAAACTCCATGATGAGTT}$
	108351	${\tt TAACCATGATTTACGCAAGTGGTTCAAAAAACTTAACTT$
	108401	${\tt AATACAACCGACTGGAAAACAGCCAGAAAAAGTTTTGTTTAGTTAAAAAG}$
35	108451	${\tt TTAAAAGCGCTTTTCAAAAAACAGGATGAAACACTGCAAAGTGAATTAAG}$
	108501	${\tt ACCAAAACTAAAAACATTTGGTGTAATTAACTTTGAGTACAAACGTGCAG}$
	108551	${\tt TCAAAGAGTCCAATGTCTTTCGATTGGTGCATTTTGCTAAAAATATCTTT}$
4 0	108601	${\tt AAACCATTCTTGTTTTTTAACCTCACCAAGATTTTTATGAGAAATAAGGT}$
	108651	${\tt CTATGAAGCACTTGATAGTGTTGGTTTAAAAAGAGAACATGCTTACAGAT}$
	108701	${\tt ACCCCCATGAATTTCAGGCGGACAAAGACAAAGAATTGCTATTGCCCGT}$
	108751	${\tt GCTTTAATCACTAAACCCAAACTGATTATTGCAGATGAATTGATTAGTGC}$
4 5	108801	${\tt ACTTGATGTTTCTATCCAAGCCCAAGTTATTAACATCTTGAAAGACTTGG}$
	108851	${\tt CTAAAAAACACAACTTAACTGTGCTTTTCATTGCCCATGATTTATCAATG}$
	108901	$\tt GTGCAAACTGTTTGTAACCGTTTGATCATTATGCATAGGGGCAAGATTGT$
50	108951	${\tt TGAACGGGGCAGTGTGGATGAGATCTTTTCAAATCCAGTTCATCCCTACA}$
	109001	${\tt CCCGTTCCCTAATAAAAGCATCTCCTAAGTTAAGCAAAATCAATGTTGAT}$
	109051	$\tt CTCGCTTCTTTTGATGAAAACTTCACTTATGATAGTGATTATTCACTAAC$

		AATATGCCCTTTTATATTAAAGTTCCTAACAGTGAAGAACATGAACTTT
	109151 A	CTGTACTCAAAAGCAATTTGATAGTTGAATCAAAGAGGCTACGCCGATA
		ATTAATTTAAAATTTTCCAAAAATGTGGGAGCTAATTAAGCGTTTGTAC
	109251	CACAGCAAAATATGGCTAAAAAAACAGTTACAAGAATCGCTAAGATTAAC
	109301	CTAATTGGCGGACAAGCAAAACCTGGCCCTGCGCTTGCTT
	109351	TAATATGGGTGAGTTTACCAAACAATTTAATGAAAAAACCAAGGATAGAC
10	109401	AAGGTGAAACGATCCCTTGTATAATCACTGCTTTTAACGATAAATCATTT
	109451	ACTTTTGTCTTAAAAACTACCCCTGTTAGTAACTTAATTAA
	109501	TAAACTAGAAAAAGGTGCTAAAAATGCAAAAACTATTGTTGGAAAAAATCT
15	109551	CCTTACAACAAGCTAAGGAGATTGCGCAATACAAGTTAGTT
	109601	GCTAACACAGTTGAAGCAGCATTAAAAATGGTGTTAGGTACAGCTAAACA
	109651	GATGGGAATAGAGGTAACTGATTAATGAAAAAACTATCAAAAAAGGATGCA
	109701	AGCTGTTACCAAGCTCATTGATAAAAACAAACTTTATCCTATCCAAGAAG
20	109751	CATTTGAATTAATTAAAAAAAACAGCAATTACTAAGTTTGTCAGTTCAGTT
	109801	GATATTGCTGTTAGTTTAAACCTTGATACTACTAAAGCTGAACAACAGTT
	109851	AAGAGGTGCAATTGCTTTTCCTTTTAGTATTGGTAAATCTATCAGAATTT
25		TAGCTATCACTGATGATGAGAAAAAAGCTAGTGAAGCAGGTGCTGATTTT
		GTTGGTGGGCTTGATAAGATAGAAGCGATAAAAAATGGCTGATTAGATTT
		TGATCTAATTATCACTTCTCCCAAGTTCATGGGAGCATTAGGTAAACTAG
		GAAAACTATTAGGAACCAGGGGATTGATGCCAAAACCCAAAAACTGAAACA
30		GTTACTGATGATGTTAGTTGCTATTAAAAGCTTATAAAAAGGGTAAGAA
		AGAATATCGAACTGATTCATTTGGCAACATCCACCTCTCTTTAGGTAAAA
		CAGATACCAAAACTGAGCACTTGGTTGCTAATGCCATGGCTTTAATAGAT
35		TTAATTAAGTCTAAACGTCCTAGCACAGTCAAAGGTACTTACATTAAAAA
		TATTGCTTTGACAACAACAATGGGACCAAGTTTAAAAGTAAAGCTACCTG
		ATTAATGCCCACCTATAAACTAATTGTTGGTTTAGGTAACTTAGGTAAAA
40		AGTATGAGAAAACTCGCCATAATGCTGGTTTTATGGTGTTAGATAGA
40		GCTAGTTTATTCCACTTAAACTTTGATAAAACCAACAAGTTAGGTGATTA
		TCTTTTTATTAAAGAAAAAGCAGCAATCTTAGCAAAACCTGCTACCTTTA
		TGAATAATAGCGGTCTTTTTGTGAAATGGTTACAAGATCACTTTCAAATT
4 5		CCGCTTGCAAACATAATGATAGTCCATGATGAAATAGCGTTTGATTTGGC
		AGTAATTAGGCTTAAAATGCAAGGGAGTGCTAACAATCATAATGGCATAA
		AATCAGTAATTAGACATTTAGATACTGAACAGTTCAATCGTTTACGCTTT
50		GGGATTAAATCACAAAATACGAGTAACATATTGCATGAACAGGTAATGAC
50		TGAATTCCAGAATAGTGAACTGACTAAACTGGAAGTTGCGATTACAAAGT
	110851	CTGTTGAACTGTTGAAGCGTTATATTGAAGGAGAAGAGTTACAAAGGTT

	110901	AIGGAAIAITAICAICAIGGCIAGIGAAAAACAAIATATAGCAGGGIIT
	110951	${\tt CAGGTGGATCTGATTCAATGCTAATGCTTAAACTTTACCAAAAGAAGAATTCAATGCTAAAACTTTACCAAAAGAAGAATTCAATGCTTAAACTTTACCAAAAGAAGAAGATTCAATGCTTAAACTTTACCAAAAAGAAGAATTCAATGCTTAAACTTTACCAAAAAGAAGAATTCAATGCTTAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAGAAGAATTCAATGCTTAAAACTTTACCAAAAAGAAAG$
5	111001	${\tt GCTTGTGTTGTTCATGTCAATTACAACACCAGATCAACCTCATTACGTGAACACCAGATCAACCTCATTACGTGAACACCAGATCAACCTCATTACGTGAACACCAGATCAACCTCATTACGTGAACACCAGATCAACCACCAGATCAACCTCATTACGTGAACACCAGATCAACCACCACAGATCAACCACCAGATCAACCACCACACACA$
	111051	TCAAAAGTTAGTAGAACAATATTGTCAAAAATTAAATATTCCACTGGTTG
	111101	TTCACACTGTTGATCCTGATCTAGTTTGAAAGAAGAACTTTCAAAATCAG
10	111151	${\tt GCACGGAAAATCCGCTTTGATCAGTTTAAAAAGACTGCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAGCTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGCTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGACTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCTATACCAAAAGCAAAAGACTACAAAAAAAA$
	111201	GACCAACAAGTTATTATTAGCTCATCACCGTGATGATTTCATTGAGCAGG
	111251	CCAAAATGCAACTAGATGCAAAAAAACGTGCTGTTTACTATGGGATTAAA
	111301	ACCAGGTGTGAATTGTATGGTTTGAAAATCTACCGTCCCCTAATGAAATA
15	111351	CTGAAAAGATGAAATCATTGCCCTCTGTAGACAAGACCATATCCCTTATG
	111401	AGATTGATGAAACTAACAAGTTACCTATTTATAAGCGCAATGAAGTGAGG
	111451	TTAGAGATAGAAAATGGTCTAAAATCGAAAAAGAACAGTTTTATATTGC
20	111501	TATCTGTGCAATGAACAAAACAATTGCTCAAAAACTGTTTGTATTAATGA
	111551	${\tt AAAAAGCTAAAAAATGGTTATTACAACCTGATGTTAGGGAATTGAAACGGAATGAACGGAATGTAACAACGGAATGAAACGGAATTGAAACGGAATGAAACGGAATTGAAACGGAATTGAAACGGAATTGAAAACGGAATTGAAACGGAATTGAAACGGAATTGAAACGGAATTGAAAACGGAATTGAAAACGGAATTGAAACGGAATTGAAAACGGAATGAAACGGAATTGAAAACGGAATGAAACGGAATGAAACAGAAACGAAACAACAACAACAACAACAACAACAAC$
	111601	${\tt TTTTCAATTATTGATCAAAAACAGTTAATTTATAGCTATCTTATTTAT$
	111651	CAAGATTAATGTTAATGGTGAGAAAATTGATGCTATCCTTGATTTTATCC
25	111701	AACCTAGTCAACAAAACAATACCGCTTGCAAAACGATATCTTTTTGATG
	111751	GTGAAAAACCAGTGTTTAGCACTTTTATACAAAAGCTAAATGAAACATTT
	111801	AACTGTCAAAGCATTAGTTTTGCAATTTAATGATTGTATCCAACTCATTG
30	111851	ATGGTAAAAACAACATAGATAATGTGATTACTATCCCTGGGTTAAAAAGG
••	111901	${\tt AGTGTTTTGAACTATTAGGACTATTTGTAAGCCAATTGGTTCAGTTGCCCCCCCC$
	111951	TATTTTAGGTAAACGTGAATTTATTTTTTTAAATCAAAAGCCAGTTGAGC
	112001	AACAGAAAAGATTATTGCAAACCTCTTGAAACTCAAACCACCTGCAGTT
35	112051	${\tt ATTCTAACCAAGTCATTTCTTGATTGTGGTGTTTTTTTTT$
	112101	AACTTATCAAGTTCCTATTTTAAAAACTAACTTGTTTTCAACTGAACTCT
	112151	CTTTTACTGTTGAAACCTATATTAACGAGCAATTTGCTACTGTTCAAAAG
4 0	112201	TTACATGGGGTTTTACTTGAAATCTTTGGTGTTGGGGTATTTTTAGAAGG
70	112251	${\tt AAAGAGTGGGATTGGTAAATCTGAAAGTGCTTTAGATTTAATTAA$
	112301	ACCACCTTCTAATAGGTGATGATGCTATTGAGATCTACAGATTAGGCAAT
	112351	AGGTTATTTGGTAGAGCACAAGCACTGGCAAAAGGCTTTATGGAGATTAG
4 5	112401	${\tt AGGTCTTGGCATCATTAATATTGAACGTGCTTATGGGTTACAGATTACAA}$
	112451	${\tt AAGAACAAACTGAAATCCAACTAGCAATTAGTTTGTTGAGTTTAGAGGAGGAGGAGGAGGAGGAG$
	112501	AAAAACAACGCTAGTTTTGAGCGCTTAGGCAGTGATTTAAAACTAAAAAA
50	112551	TCTGCTTGGGGTTAAGATTAGTTACTATCAGATCCCTATCTCTTCAGGTA
50	112601	GAAAAACAAGCGAAATTATTGAAAGTGCAGTAATCGATTTTAAACTTAAG
	112651	AAAAGTGGTTACAATTCAGCAAACGAGTTTATCTTAAAGCAACGTGCCAT

	112701 GTTAGAAGAACAAACTGATGAATAGACCAAGTTGATCAACTGCATTTAAT
	112751 ATTGGTGGTGGATTTCCCATCCAGTGGTATGGGATCATTGTCTCAATTGG
5	112801 CATTATTTTTGCCATTTTAATGTTTGTCTTTAAACTGATTTATTGTTACA
	112851 AATTACAAGACAACAGTTTTTATTTTTTTTTTTTTTTTT
	112901 ATGGTTTTAGGCGCTCGCCTCTGGTCATTTGTAATTGGTGATTCCAATTT
10	112951 TGCTAACAACAATTTCTTTGATTTTCGTAACGGTGGATTGGCCATTCAGG
	113001 GTGGGATTTTGTTAACCAGTATTGTCGGAGTAATCTATTTCAACTTCTTT
	113051 TTAAATAGTAAGACCAATAAAACCAAAACGATTGCTGAATTACTGAATAA
	113101 TAAGAATGAAATAAAAGCTGTTTATGTTGAAAGAAATATCTCTGTTCTAG
15	113151 TGATGTTAGATCTGATTGCTCCTTGTGTTTTAATTGGTCAAGCAATTGGC
	113201 AGATGGGGTAATTTTTTCAACCAAGAAGTTTATGGGTTTGCTTTAGCTGG
	113251 AACAATGAATGATCCCCAAGCATTGGCTAATACCCAGTGGGGATTTTTAA
20	113301 AGATCTTAATGCCTAAGGTTTGGGATGGGATGTGGATTGATGGTCAGTTT
20	113351 CGCATTCCGCTCTTTTTAATTGAGTCATTTTTTTAACACTATTTTCTTTGT
	113401 GTTAATTTACTTTGTAATGGATTTTATTAGGGGAGTTAAAAGTGGCACAA
	113451 TTGGTTTTAGTTATTTTCTTGCTACTGGAATCATTCGTTTAATCTTGGAA
25	113501 AACTTTAGAGACCAAACCTTTTATTTTCAAACTTCAATAACCACTAGTAT
	113551 TTTGTTTATTGTCGTTGGTATTTTAGGAATTTTTATTGCCAGTTTATCC
	113601 ATGTCAAATTAAGAAATTACTTCTGAACTTATTTCTTTCT
20	113651 TATAAAGTAGCTGCTTTTTTCACTACACTTTTTTTGAATAACAGAAAGCA
30	113701 AATGGCACAACAGAAGTTTGCTTTTTATGAAAAATCACTTCCCAATAAGA
	113751 AGCGTTCTTTTTTGAAATGAAGTATTACAATGATGTAACAACACCCAAA
	113801 ATTTATCGTTTAACTGATCAGGAAATGAAGTTATTTGATAAATTAGAGGC
35	113851 AGTTACAACCAGCTAGATTTTGTTAGAATACTTCAGTTGTCTATATGGCT
	113901 ACAATAGCGCAATTAATTAGAAAACCACGCCAAAAAAAAGAAGGTTAAATC
	113951 AAAGTCACCTGCACTCCATTATAACCTCAACCTTTTAAACAAAAAAACTA
	114001 CCAATGTTTACTCACCACTAAAGCGTGGTGTTTGCACCAGGGTTGGCACC
40	114051 ATGACCCCCAGAAAACCTAATTCTGCACTAAGAAAGTATGCTAAGGTTAG
	114101 ACTTACAAATGGCTTTGAAGTACTTGCTTATATCCCAGGAGAAGGTCATA
	114151 ACCTACAAGAACACAGTGTTACTTTATTAAGGGGGGGTAGAGTAAAAGAT
45	114201 CTCCCTGGAGTTAGATACCATATTGTTCGTGGTACTTTAGATACAGTTGG
	114251 TGTTGACAAAAGAAGACAACAACGTTCTGCATATGGCGCTAAAAAACCAA
	114301 AACCAAAATCTTAACTTGATCAGTTAAATAATGAGAAAAAATCGTGCTTT
A	114351 AAAAAGAACTGTTTTACCCGATCCTGTTTTTAACAACACACTGGTTACAA
50	114401 GGATTATTAATGTCATCATGAAAGATGGCAAGAAGGGTTTAGCACAACGC
	114451 ATCTTGTATGGTGCTTTTGAGATCATTGAAAAACGCACCAACCA

	114501	${\tt TTTAACTGTCTTTGAAAAAGCAGTTGATAATGTTATGCCCCGCTTAGAGT}$
	114551	${\tt TAAAAGTGAGAAGTATGCTGGTTCTAACTACCAAGTACCAACTGAAGTT}$
5	114601	${\tt CCCCTGACAGAAGGATTGCTTTAGCACTAAGATGGATTGTGATCTTTGC}$
	114651	${\tt TAACAAAAGAAATGAAAAAACAATGCTTGAACGTGTTGCTAATGAAATTA}$
	114701	${\tt TTGATGCTTTAATAACACGGGTGCTAGTGTTAAAAAGAAGGATGATACT}$
10	114751	${\tt CACAAGATGGCAGAAGCTAACAAAGCCTTTGCCCACATGCGTTGGTAGTT}$
	114801	${\tt ATTTATTATGTCAAGAACAGTTGATTTAAAAAACTTCCGTAACTTTGGCA}$
	114851	${\tt TTATGGCCCATATTGATGCTGGGAAAACCACCACATCAGAACGTATTTTG}$
	114901	${\tt TTCCATTCAGGTAGAATTCACAAGATTGGTGAAACCCATGATGGTGAATC}$
15	114951	${\tt AGTGATGGATGGAACAAGAAAAAGAAAGGGGGTATTACTATCACCT}$
	115001	$\tt CTGCAGCCACTTCAGTGAGCTGAAAAAACTGCAGCTTAAACTTGATTGA$
	115051	${\tt ACTCCTGGCCATGTTGACTTTACAGTTGAAGTGGAGCGTAGCTTAAGGGT}$
20	115101	${\tt TTTGGATGGAGCAATTGCGGTATTGGATGCTCAAATGGGAGTAGAACCAC}$
	115151	${\tt AAACTGAAACAGTATGAAGACAAGCTTCACGCTATGAAGTACCACGGGTA}$
	115201	${\tt ATCTTTGTTAATAAGATGGATAAAACCGGTGCTAACTTTGAGCGCTCTGT}$
	115251	${\tt TTTATCAATTCAACAACGCTTGGGAGTGAAAGCTGTTCCTATTCAATTTC}$
25	115301	${\tt CCATAGGTGCTGAAAATGATTTCAATGGCATCATTGATATCATCACTAAA}$
	115351	${\tt AAAGCTTATTTTTTGATGGTAATAAAGAGGAAAATGCTATTGAAAAACC}$
	115401	${\tt AATTCCTGAACAGTATGTTGATCAAGTTGAAAAACTTTACAACAACTTAG}$
30	115451	${\tt TTGAAGAAGTTGCTAGTTTAGATGATCAACTCATGGCTGATTATCTAGAT}$
	115501	GGTAAACCAATTGAAATTGATGCAATTAAAAATGCAATTAGAAACGGGGT
	115551	AATTCACTGTAAGTTTTTCCCGGTATTGTGTGGTTCAGCATTTAAAAACA
	115601	${\tt AGGGAATTAAACTCTTACTTGATGCAGTGGTTGATTTTCTCCCTTCACCT}$
35	115651	GTTGATGTCCCACCTGCTAAAGCAATTGATGCAAACAACAAGAGATATC
	115701	TATTAAAGCTAGTGATGATGCTAACTTTATTGGCTTAGCATTTAAAGTTG
	115751	CTACTGATCCTTTTGTTGGTAGATTAACTTTTATTAGGGTTTATGCAGGA
4 0	115801	GTTTTAAAATCTGGTTCTTATGTTAAGAATGTTAGAAAAAAAA
	115851	AAGGGTATCACGTTTAGTGAAAATGCACGCACAAAATCGCAATGAAATTG
	115901	ATGAAATTAGAGCAGGGGATATCTGTGCAGTAATTGGCTTGAAAGATACT
	115951	ACTACTGGAGAAACTTTAACTGATGATAAGCTTGATGTGCAACTAGAAGC
4 5	116001	AATGCAATTTGCTGAACCAGTGATCTCTTTAGCAGTAGAACCTAAAACTA
	116051	AAGCAGATCAGGAAAAGATGTCAATTGCTTTATCAAAACTAGCAGAAGAA
	116101	GATCCTACTTTAAAACCTTTAGTGATCCTGAAACAGGGCAAACTATTAT
50	116151	TGCTGGAATGGGTGAGTTACACCTTGATATCTTAGTTGATAGGATGAAAC
	116201	GTGAATTTAAGGTAGAAGTTAACATTGGTGCACCTCAAGTTAGCTTTCGT
	116251	GAAACCTTTAAATCAACTAGTGAAGTTGAGGGTAAATACATCAAACAATC

	116301	AGGTGGTAGAGGTCAATATGGACATGTTAAAATCCGTTTTGAACCTAATA
5	116351	AAGATAAGGGCTTTGAATTTGTTGATAAGATTGTGGGCGGAAGGATTCCA
		AGGGAATATATTAAACCAGTTCAAACTGGTCTTGAAAATGCAATGAATTC
		AGGTCCTTTAGCAGGTTACCCAATGATTGATATTAAAGCTACCTTATTTG
		ATGGTTCTTTCCATGAAGTTGACTCAAGTGAAATGGCTTTTAAAATTGCT
10		GCATCCTTAGCTTTAAAAGAAGCAGGTAAACAATGTAACCCAGTTTTACT
		TGAACCTATTATGGCAATAGAAGTTACTGTACCTGAACAGTACTTTGGGG
		ATACAATGGGTGATATCAGTTCAAGAAGAGGGATCATTGAAGGTACTGAA
		CAACGTGATAATGTTCAACTAATAAAAGCAAAAGTACCTTTAAAAGAGAT
1.		GTTTGGTTATGCCACTGATTTACGCTCTTTTTTCCCAAGGTAGGGGTAATT
		ATGTAATGCAATTTAGCCATTATGCTGAAACTCCTAAAAGCGTTGTTAAT
		GAGATAATTGCTAATAAAAAATAGATACTTAATAAAAATATAACTTTACT
2	20	CAATGAGTTTTTCCAAAAAGTTTTTATGCACTACAATATCATTCTTTTAG
	116951	${\tt TTGATGGTACGCTTAGTTTAGAACAAGCTAACCAAGTTGAACAAAAACAC}$
		CAAAAATTGCTTGAAAAGGCAACTGAATTTAAAAGTGAATACTTAGGTTT
		AAAAGAGTTGGCTTACCCCATTAAAAAGCAACTTTCTGCTCACTATTACA
2		GATGGAGTTTTCATGGTGAAAGCAATTGTACTAAGGAGTTTAAAAAGAGCT
		GCTAACATCAATAAGCAGATAATAAGAGAGTTAATTATTAACAGAGAAAA
	- :	AGACTATGGTTATTTAGGTTCAGTTAACCCTAAAAAACAACAACTGTCTT
•	30	TGCAGAAGCTAACCAAGTATAATGAGATTATTGCTAGTGAAAATAATCCT
•	117301	GATAACCCAGATGCGCCTGTCACTTCTGGTCTAGCTTCTGTTAAACCACG
		GCTATCAAGAGTTGAAAAACAAAAGGAACGTGAACTTGAAAAGTGAACGG
		TTGTTCACCAATCAGGTAACTTTGATACTGTACAGATCAATCCTTATCGT
	= ::	CCTAGGATAAAACGCTTTTTACAAAACAACCAACAAACCTCCCAAGCTAA
		TAATAACCAACCTCGTTTTCAAAATCAATTTAAAAAAAGGAGCAAAACCTT
		AGATGAACCGGGTCTTCTTGTTTGGTAAACTCAGTTTTACTCCCAACCGT
	40	TTACAGACAAAAATGGTACGTTAGGAGCTACTTTTTCCATGGAATGTCT
	117651	TGATTCCAGTGGTTTTAATAATGCCAAATCATTCATTAGAGTAACTGCTT
		GAGGTAAAGTTGCTAGTTTTATTGTTGCTCAAAATCCTGGGGTGATGCTT
45		TTTGTAGAAGGAAGATTAACTACATATAAAATTACTAACAGTGAAAATAA
		AAACACCTATGCTTTACAAGTAACTGCTGATAAGATCTTTCATCCTGATG
		L AAAAAACTACCAATGAAGAACCTATTAAATCAACTGTAGTTGATTCACCC
50		L TTTATGAATCCCAAAGCAAGTGTTACAGAAGCTGAGTTTGAACAAGCATT
	EO.	l CCCCCATCAAGATGAAACTGATTTTAACAACATTACCCCTATATTTGAAA
	11800	1 ATGATGTCCAACTAGAGGAGGAAAGTGATGATTAATAAAGAACAGGATT
	11805	1 AAACCAATTAGAAACCAACCAAGAACAGAGTGTTGAACAAAACCAAACT

	118101	ATGAAAAGCGCAAGCCAAAACCAAACTTTAAAAGAGCAAAAAAATATTGT
5	118151	${\tt CGATTTTGCGCCATAGGTCAACTAAGGATTGATTTTTTGATGATTTTGGA}$
	118201	${\tt AGCAATCAAACGCTTTCTCAGTCCCTATGCAAAGATTAATCCTAGAAGAA}$
	118251	${\tt TTACAGGTAATTGCAACATGCACCAACGTCATGTAGCTAATGCTCTAAAA}$
	118301	$\tt CGAGCACGTTACCTAGCTTTAGTGCCATTTATTAAAGATTAAATATGAAG$
10	118351	${\tt ATAATTTGAAGCAAGATGTTGCTAAATTAGGCAAGCGGTTTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGT$
	118401	${\tt TGAAGTTAAAGATGGGTTTGCTATCCATTTTTTATTTCCCAAAAAACTAG}$
	118451	$\tt CTGCACCTTTAACAAAGAAAGCAATTGCTAACCGTGATTTGTTTTTAAAA$
	118501	CAACAACAAGAACAATACCAAAAAAATCGTGCCTTAGCTGAAAAATTGAA
15	118551	${\tt ACTAGTAATTGAACAAACAACACCATTAACTTTTCAACTCAAACAACAACGATG}$
	118601	${\tt GCAAGCCATATGGTTCAATCATCACCAAACAAATAATTAAT$
	118651	${\tt CAACAAGACTTGATTTACAGCGCTTTATGTTTAAAGATAATGTGCGCTT}$
20	118701	${\tt ACAGTTTGGTGAACACAAACTAATTTTGCACCTTTTTGAGGAGATAACTG}$
	118751	${\tt CAACTTTAACTGTTATAGTGAACCCTGAAAATGGGACAACAAACTAGTTT}$
	118801	${\tt TAAATATGCAAATGATAGCAACATTGAACGTGCTGAAAGACGTTTGATGC}$
	118851	${\tt AAGCAGTTGCTCAAAACAGTGAGGGCATTGATCTAATTTTCAATAAACTT}$
25	118901	${\tt GAACCAATTGATTTTTTGCAACCCCTTTCAAACTCATTTTTCAAACTGC}$
	118951	${\tt AAAAGAAAACTACCAATTAAATAACCCTATTATTGGTTCTGGTTTACTAG}$
	119001	${\tt AAGCGGTTAAGTTTAAACTTGATGCTAATGATCAATCCACTAAAAGTGAA}$
30	119051	$\tt CTTGAAATTTTATTCACAAAGATCTTATTAATCCGTTTACCACCTAACCA$
30	119101	${\tt AACAGAGATTAAAACACTGGTTGATGTTAAAAAAGCTTCTATTTTC}$
	119151	${\tt GCAGGTTACAACAGTTTGCTAAGCGTGTTTACAACGAGGAATTTAAGTTA}$
	119201	${\tt AAAGAAGATCGTTTTGAAGGCTATTTACAAGCTATTCAAGATGATTTTGT}$
35	119251	${\tt CAAGATTATCCACAGTGCTTTTAGTAACATCTTTGCTTTTAGCTATGATG}$
	119301	${\tt AGATTGCCAATCAAGAGGAAGCATTAATTAAAAAGGTTCACCGTGGGGAA}$
	119351	${\tt TTGATCATCAGTGGACTTTCAAGTGGATTTTTAAAATTAGATCAACTTAC}$
40	119401	${\tt ATCAGGTTGAAAACCAGGAGAGTTAATAGTAATAGCAGCTCGCCCAGGTA}$
40	119451	${\tt GAGGTAAAACTGCCCTTTTGATTAATTTTATGGCTAGTGCAGCTAAACAA}$
	119501	${\tt ATTGATCCTAAAACTGATGTGGTCCTCTTCTTTAGTTTAGAGATGCGTAA}$
	119551	${\tt CCGGGAAATTTACCAAAGGCACTTAATGCATGAAAGTCAAACTAGTTACA}$
4 5	119601	${\tt CACTAACCAACCGGCAAAGGATTAATAATGTCTTTGAAGAGTTAATGGAA}$
	119651	${\tt GCATCTTCAAGGATCAAAAACTTACCTATTAAACTCTTTGATTACAGTAG}$
	119701	${\tt TTTAACACTCCAAGAGATCAGAAACCAAATTACTGAAGTGAGTAAAACCA}$
50	119751	${\tt GTAATGTTAGGTTAGTAATTATTGACTATTTACAACTTGTTAATGCTTTA}$
50	119801	${\tt AAAAATAACTATGGTTTGACAAGACAACAAGAAGTGACAATGATCTCTCA}$
	119851	${\tt ATCACTTAAAGCATTCGCTAAGGAGTTTAATACCCCTATTATTGCTGCAG}$

		CTCAACTTTCTAGAAGGATTGAAGAAAGGAAAGATTCCAGACCAATTCTT
		rctgatttaagagaatcaggttcaattgaacaggatgcggatatggtttt
5		ATTTATCCATAGAACTAATGATGATAAAAAAGAACAGGAAGAGGAGAACA
		CAAACTTGTTTGAAGTGGAGCTTATCTTAGAAAAGAACAGAAATGGTCCC
		AATGGCAAAGTTAAACTAAACTTTCGCAGTGACACTTCTTCTTTATTAG
10		TCAATATTCCCCTAGTTTTGATGACCAATACAGTTAATTTATGAAACTGA
		AGTTTTACAAACTACCTTTAATTACTACAGCATTTAGTTTTTGTATTTTTTA
		ACTGCTTGTTCAACACCCCAATCTTCCTTTTTTCTCCCTGCACAAACAA
		TATTAGTACTTTAAAAATTAATGGTATGGAAAACAAAAC
15	120351	TTGAAACGCAGCGTTCTCGTGGTAGTTACAATCCCACCGCTTCACTTACT
	120401	ATGATTAAGTTAGGAGATGAAAAAGAGTTTAAAAACGTAGATACAACCAA
	120451	GCAAGATGAAGTTTTGTTTGCCAACATTTATGGTGGAATCTCTTCATTGC
•	120501	TTAACTTCAGAATTATCCAACCGATGTTAACCTACTGAAACTTAGTTAAC
20	120551	AACTCATTAAGTCAGATTGGTAGTACTAATGACTTAATTACATTCAAAGA
	120601	TAGTGGATATAAAGATCAACTTGCAAAAGCGCTTGCTAACAATCTCATAG
	120651	${\tt TTGCTGATGAAGGTAATAATAACTTTTGGTTTGGTTTAAAAGCCCTAAAG}$
25	120701	TTTGATACGGTTAAACTCCAAGCTAATAATACTGCTACTAGTTCAACAAG
	120751	AGCTTCAACTACTCAAAATACTAATAATAAGATTGATGCACGTGAAAAAA
	120801	TCACCATTAATGGGAATGGTGGAACAAATAATGATCAAAATGCTACTGTT
		CAAAAGTTGATAGGTATTGAAAATATTGAAGTTGAGTTTAGCTTTGTTAA
30	120901	AACTGGTTTTAATGGAAATGAGATTAAGTTTGAAGATTATGTAACAGATT
	120951	CTTCCCCCACAACATCTTTATTAAAGCAAGTTTGAAAAAGTAAGT
	121001	ACCGAGTTGACCCACACCAGCTTTAAATTCAAACTCAATTCTTTCAATGT
35	121051	TTTGTTAACTTATCAATTGGAAGCAAACCAAAAAAGCCAATATCTTCCCA
	121101	ATGGCTTTAGCTTTCTTTTTCCATCTAATTTAGAAGGAAAGATAGAT
	121151	TCAAAAAGCTATTGAAACAATCTTGTTGATTTTTCAAAAAGAACCACAAA
	121201	TGAAGAGAACACAATGCTACTAACTGATTTGCAAAAGAAACAAGATCAAG
40	121251	TGAATCGGTTTGTTGGTTTATTGGTCAAAACCACTTTACTTTAAGTGCT
	121301	AACAGCATTAATGAAAAGCAGTTTAACGATGCTAGTACTGCTGATTTTTT
	121351	TAAAGCAATCTTTCAAAAAGTGAGTATCAATGAATAACAATTTTAGCCAT
45	121401	TCAGTTTTGAAAAGAAAAGTTTAAATTAATGGTAAAATTATT
	121451	TTTCCTTGTTAGTTGTAGTTTTCAATACTGTTTGTATTTCGAAGTTCATT
	121501	TTAAAAAATTCGTAGTTCTAGATCTTTAAAATATGTTATTTAATTGTCT
	121551	TTTTAATTTCATAAATTGTTTGAAAACACAAAAAAATATCTTTAAGGTC
5	0 121601	AGGCCTTACTACTTTCACTTTTTTCTGCTGCTGTTACCATCACTATTTT
	121651	GCTTTACCTATCTTTGCAAACAATGGTTCTAAAACTGATTTAGGTTTGC

	121701	${\tt TTCTAAAAATAGTGCTGATTTTTTAGGTAGTTCAAAAAGAAGTCTTGCTG}$
	121751	GCTTTGATACTCCTTTTAGTCCAGATAACCTCCAGTATTTAGAAAAAGAA
5	121801	ACTGATTATGATCAGAACTTTAAAAGTTTTACTGAAAAGTTTAAAGATGA
	121851	AAAAATAACTAACAACCAACTTGGTATTGTTGATATCTATAACTTATTCA
	121901	${\tt GTGGTTTTCACAAGAGTGTCAAAAGCACAGTTGACTTAATGAACCAACTG}$
10	121951	${\tt CAAAAGCAAGTTGAAGCTGCTAATGCTATCTTCCCAGTTGATGATGCTTT}$
	122001	${\tt TGTTAAATTACCTAAAGTACCTACTGAATTATTTAAGTTAGTT$
	122051	ATGTCTTTCCTAAGTTAAATCCTAAGGGCTTAAATATCTCTGATAATATT
	122101	GCTGCACTTTTTGAAAGATATAACCTTAAATCGATTGAACTTAAGAACTT
15	122151	${\tt TGACTTAGCTTTCTTGAGAAAAGCTGATGTAATTATCAAAGACAAGGTTC}$
	122201	${\tt GATATAACTTTGAGATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAACTGTTTATGTTGGTGGAATGCAAATGCAGTTTCAAAACTGTTTATGTTGGTTG$
	122251	${\tt GGGAATACCGTTATTAACTTAGACTTTACTTTAAAAGCCCAAACCGTTAA}$
20	122301	${\tt CTTTGCTAACCTCCAAGATTTACAAAACACTTTTGTTAAAGTTGGTAATG}$
	122351	${\tt ATCTTTCCACCCAACTCTTTTGGATTCCAACTGTTAATAAATTAACTGAT}$
	122401	${\tt AATGCAGGTAATGATCTTACCCATATTGCTAAAACTGTGATTGGTGAATCCCATATTGCTAAAACTGTGATTGGTGAATCCCATATTGCTAAAACTGTGATTGGTGAATCCCATATTGCTAAAACTGTGATTGGTGAATCCCATATTGCTAAAACTGTGATTGGTGAATCCCATATTGCTAAAAACTGTGATTGGTGAATCCCATATTGCTAAAAACTGTGATTGGTGAATCCCATATTGCTAAAAACTGTGATTGGTGAATCCCATATTGCTAAAAACTGTGATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGGTGAATCCCATATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAACTGTGAATTGCTAAAAAACTGTGAATTGCTAAAAAACTGTGAAAAACTGTGAAAAACTGTGAAAAACTGTGAAAAAACTGTGAAAAAACTGTGAAAAAACTGTGAAAAAACTGTGAAAAAACTGTGAAAAAACTGAAAAAAACTGTGAAAAAAAA$
	122451	${\tt GTTTTTCCAAACCAATGTTAACTTAGCTAAATCAGTTATTGAATATGATA}$
25	122501	${\tt AGGTTCAACCATTGGTTAAACAAGCTTTTGAAGAGCGAGTTTTAACTCCT}$
	122551	${\tt TTCAAAAAGGAAAGAAGAAGCTGCTAAAAAAGCTTATGAAGAAGAACAACG}$
	122601	${\tt TCGCTTGGAAGAGGAACGTAAGCGTCAACTAGAAGAGCTAAGGAGAAGAGGAGAAGAGGAGAAGAGAGAG$
30	122651	AAGCTGAGGAGAAAGGAAAAGCTGAAGAAGCAAAACGAAATCAAGAAAAA
00	122701	GCACGCAGAGAAAGGAGAGCTTATGAAAAATCATTTAACTCCTTTAAAGA
	122751	$\tt CTTTAAATTTTACTGGTTAACTAAAGGTAAAGATGTTACTAAAAAAGCTG$
	122801	ATTTAATTGATGCACTTAAAACCGCTATTGCTACACCAGCATACAGAAAT
35	122851	AGAACATTCTCTTTATTAATCAAAGGTTTTGCTAGTGGAGTTGAACGTTA
	122901	TTTCAACGCTAACAAGAATGATAAAGAGTTGAAAAAACTTGCATTTGGTG
	122951	AAAAAGGGATCCAATTCCCTAGAGCAGATGCTGGGGTAAATGGTCTTTAC
4 0	123001	ATGAGTAATTTTTGAGGCATGAATTGACAAGCAAAGCAA
	123051	TAACCTAAAAGATATAAAAGTTGAAAAATACGGTTGAAGATACTCAATTGT
	123101	ATTGGAAGGATAATGGCATTCATTTAAAGCAAGCCAATCCTTATAAATTC
	123151	AATCTAAATATCAAGATCAAGTACAACGGCTGGTATAATGTCCACTGGTG
45	123201	AAACTGGCTCCCTGCTAAAATTTTAGGGATTCCTACAGACTGAAGTGGTG
	123251	AGATGAATTTAACATTTGTTGTCAACGGTGACCTATCAGAAATTGTTGAT
50	123301	AAACATGATTACCCTGGTACTTTCTTTCAATTTACCGATAAAAATGAATT
	123351	GCTATTTACCTTAGCAGTTAGAGAACAAATTAAGGTTGATAATAATCATT
	123401	TTATGGGTCTGTTAAAAAGCCAAAACCTTCATAATCTTCAGCTTGCTT
	123451	GGTGCTACAAAACCTCCTGTTGTTGATTTAGCTAGTTATTTCCACTTTGT

		ATTATTGACTGAAAAATCTTAATCTATTAAGAAATTTTTGATCAGTTACT
		TTTACCTAGATAAATTTAAAGTTTATTTGTGGTAATGGATGATCTATTCC
5	= · · · · · · · · · · · · · · · · · · ·	AAAGAATGGTTAGCTGTTCTACCGTCATGAAGAGCTTTTATTGATGAG
	123651	GAAGTTAAAAAACCTTATTTCAAGCTTTATTAGAAAAATTAAAGGCTTT
		AAAAGCAACAATAATTCCAAAACCAGAACTTATTTTCCGTGTTTTTAGCT
	10	TCTTTAAGCCAATTGATACAAAGGTAATTATCTTTGGTCAAGATCCCTAT
	123801	CCTAGTCCTAATGATGCTTGTGGACTTGCTTTTGCATCCAATAATTCCAA
		AACCCCTGCCAGCTTAAAAAGAATAATTTTACGTTTAGAAAAAAGAATATC
		CTTCGCTTAAACAAGAAAGTAGTTGACAACAAAACTTCCTATTGAATTGA
		GCAGAACAGGGCGTTTTATTACTAAATGGAATTTTAACAACTACTGTATT
		TATACGCAACGCCCATAAAAATTGGGGTTGGGAGGAGTTTAACTGTAATT
	12405	TGCTAACTTTTCTAAAAAATCAAAACATTAAACCGCTGTTGGTATTTCTG
		L GGTGTTCAAACTAAAAACTTTGTTGTTAAGAGTATTGGTAATGTTGATGG
	20 12415	L ATTTGAGCATTTATCATATCCCCATCCCTCACCACTAAGTGGTAATTTGT
	12420	1 TTCTAACAAACCCTAACGATCTGTTTAAAACAATTAACAATTGGTTGAAA
	12425	1 CAACATAACCAAAAAATAATTAACTGAGCAGTTGTTAAAAATGCTAGTTT
	25 12430	1 TGACCAATTAAGTTAATTAAAAACAAAGCTGTAGTTGACACTTGTTTATT
	12435	1 GATTAGAAAAACAACCTTGTAAAATTATTTAACTAAGTGATTATTAC
	12440	1 TTAATTGCACTTTAGATGGGAGAGATTAAAAATACTGCACCAACAAGCGA
		1 TATTTCCACTTCAGGATTTATCTATTTTGCAGTTGTTTTTCTAATCATTA
	30 12 4 50	1 TAGTCTATCTTTTTTTTAAAAACATTCTCTTTTTTTTTT
	12455	1 TATCCTAAAAACACACCTAAAATTGGGGTTAGCAATATTACTACTATTGC
	12460	1 TATGATTATTGCTGTTGCTGTATCTGTTGTTTTGGTCTTAATGGCTTTAG
	35 12465	1 CAGGGGGGTTAACAGCAGCGCTGTTCCGTGGTTATCCTGGGTTCCGTGTT
	12470	1 ACCTTAGAGTTAATTCTAGTGAAGATTTCAGGACTTTTATTTGGTCCTAT
	12475	1 AATTGGTATTTTTCAGCAGCTACCATTGACTTTTTAACTGTTATTTTTT
	12480	1 CAGGTGGGGTGTTTAATATTGGTTATGTTTTAGGAGCAATCCTAACGGGA
	12485	1 ATGATTGCTGGAATTTTACGTGAAGTTTTAATTTCAACTTCTTTTTTAAA
	12490	1 TAACAAAACTTTAAGTGATTTTGCCTATCTTGTTTTATCAGTGGGGATGG
	1249	1 TATTTGCCAGTTTTTTAGTAACCCAGTTTTTTGTTATCTCAGTTACCCAA
	45 1250	OL AACTTATCAGCATTTCAAAGTAATGATCAAATTGTTTTACGTTTTAACGC
	1250	51 CTCACCTTTAAATTTCAGTATCTCATTGCAAAGATATGTTCAAATTATTT
	1251	OL TCTATTTTGCGATGGTTGTAATCATCACAATGGTAGTACTTTACTTTGTT
	1251	51 TGAATAATCAAGCAAAAGCACTTTAACTATGCTTATTCCAAGTTTTTCTT
	50 1252	Ol TCGTAGATATAAACATGCTAATCACCAATTTACCTTATTTGTGTTAACAA
	1252	51 AAGAAAACTGGTTTTATCTAATTCTGAATGTAATTACATTAGCAACCACC

	125301	AGILIGUIAAIGAIIAACAIIGCAIIIAIICCIAICIIIGAIACCCAAAC
5	125351	AACTGGACAAACTTATGATTTTTGATTATTAGTTAGATTATTGTTTGCTC
	125401	$\tt CTTTGATCTTCTTACTTGATATTATTGTTATCTATCCAATCTTGTTATTG$
	125451	TTAACCCCAATCATGTTAAAAGGGTTTAAAACAGTAGCATCAGAAACCCA
	125501	AACAAAAGGAATCAAAAAGAGTTTTTCAGATATGCAAAGCTTAATTATGC
10	125551	${\tt CCAATGTTATTAGTCACAAAAAACAGCAGTTAATTAGAAAAGAGATGCAAAAAAAA$
	125601	CAGTTAGCAAAAACAATCAGAATTGATTTATCAGACAAAGAAGTGGATGC
	125651	ACTTGTTGAAGAGTTTAAAGAGATCACAAAGAGTTTTAATAAGGTAACTA
	125701	${\tt AAATTGATACCACTAATGTTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACGCTCCATTTGAATTTAGTCAACCGATGTACACCGATGTACACCGATGTACACCGATGTACACCGATGTACACCACCACCACCACCACCACCACCACCACCACCACCA$
15	125751	CCAACCCCACTAAGAAAAGATAAACCAGTAGTTGATAAACACGCTAAGCA
	125801	ACTACTTAATAACTGTTGTGAAGTTAAAACAGGTTTTGTAAAGGTATAGT
	125851	TGTGCGATCAAATATTTTAAGTCTCAGGGCGATACTTGATAAAAAACCTA
20	125901	GTGCCATTAACGATGTTTTAACATCAATTAATGCAAAGATAGAACTGAAT
	125951	AAATCAAGTAATTTTTTTTTGAAAAATACTGTTGAAAATTTATTCAAAAAA
	126001	AATTAATAAAAGTGATGAAAAGATTCTGCTAAATAACATCCCTTATGTTT
	126051	TGAAAGATAACATCGCTACTAAAGATATTGTCACCACTGGTGGTTCTTTG
25	126101	TTTTTAAAAAACTATCTTCCCCCTTTTTCAGCAACTGTGTTTGAACTGTT
	126151	AGAAATGAATGGCGCGTTGCTTGTTGGTAAAGCTAATATGGATGAATTTG
	126201	GCTTAGGTGGAACAGGTAGTTATTCTGCTTTTTGGTGTTGTTCATCACCCT
30	126251	GAAAATTCCAGTTTAATTGCAGGTGGTTCTTCCTCAGGTTCAGCTTACGC
	126301	AGTTGCTAAAGACATTGTTCCTTTTTCCATTGCAACTGACACTGGTGATT
	126351	CGATTAGAAGACCTGCTAGTATCTGTAATGTTGTTGGCTTTAAACCAACT
	126401	TATGGTTTGATATCACGTAATGGGGTATTTCCATATGCCCCAAGTATGGA
35	126451	CCATGTGGGGATATTTGCTAAGTTTGTTAGTGATATTGCCATTGTTAGTG
	126501	ATGTTGTTATTAAACATGATAAAACTGATTTTTCTTCCCAAAAATCACCT
	126551	GATGAAAACCAGTTTTTCAATGAGTTGGCCATTCCCTTTACAAGATCAAT
4 0	126601	TCGCTTCGGTTATTTAAAACCACTAGAAAAACTGTTTAACAAACA
40	126651	AAAAAAATGAAATAATCTCAAAAAAACCTTAGAACAAAAAAACTACCAG
	126701	TTGATTCCACTTGATTTTGATGTGGAACTTCTCAAAGTAATTGATTCTAT
	126751	TTACAAAATAATTAGTTATAGCGAAGCAGTTAGTTGTTATAGTAATTTAA
4 5	126801	CTGGCATTGTCTTTGGTCAAAAGGTGTTTGAACCTAATTCACCAAGTAAT
	126851	TTTGATCAAACTATTACCAGAAACAGAGATCAGTTTTTAGGTAAACAACT
	126901	AAAAAGAAGATTTGTAATAGGGGCATTTGCAACTGATGAGAAGAATTTTG
5 0	126951	AAAAGTACTTTGAAAAAGCTCAGAAAATAAGAAGAGTCTTAGTGGATAAC
50	127001	TTTCTGAATCTCTTTAGTGATGTTGATTTTGTATTATCACCAAGCGCTTC
	127051	TTGTTTTGCTAGTACCATTGAAGATATTCAAGCTAATAAGCCATATACAA

			ACATTATTGATGACTTTTTACAATTAGCTAATTTTGCTGGTAGCCCTTCT
			ATAACTATCCCTTGGTTAGTTCAAACAAAAGACCAAACAATTGGTTTAAG
5			TATTAGTGCTAACTGTTTTGAAGATAAAAAACTCTTACAAATTGCTTATT
			GATTTGAACAACTTTTTGATTTAAACCATGATTAATTTTGAAGCGATTAT
			TGGAATTGAAGTCCATGTAGTTTTAAATACTGCTAGCAAGATGTTTTCAA
1	10		AAGCACCTAACCGCGTTGATAATCAAAAAATCAATCATTTTATTGACCCA
	. •		ATAGATTTAGGTTTACCAGGCACTTTGCCTCAAGTTAATGAGTTAGCAGT
			TTACAAGGCATTATTATTAGCTGATGCATTAAAAATGAAGACAGTAACAA
			ATAAACTTGTTTTTGATCGAAAGCACTATTTTTATCAGGACTTACCTAAG
	15		GGTTTTCAAATCACCCAACAAATTATCCTTTTGCTAAAAATGGTGTAGT
			TACCATTAATGTTGATGCTATTGAAAAACCAATTTATATTGACCGGTTTC
			ATTTGGAGGAAGATACTGCCAAACAACACTTTAACCATGACCAAATTCTG
	00		CTTGATTTTAATAGGTGTGCTGCACCTTTAATTGAAGTTGTTACTCTTCC
	20		TGTTATCAACACTGCAAAAGAAGCGAAAGCCTACCTACAGAAGTTGAGAC
			${\tt AAATTCTGATTGTTAACAATATCTCCAATGCCAAATTGGAAGATGGTTCA}$
			${\tt ATGCGGAGCGATTGCAATGTTTCAGTACGTTTAAAAGGTCAAAGGCAACT}$
	25		AGGAACTAAAATTGAAATTAAAAACATCAACTCACTTAATAATGTTGAAA
			${\tt AAGCGATTGATCTTGAGATTAACCGCCAAGTTAAAGCACTTATTAATGGT}$
			GAAACCTTGAGTCAAGCAACTTTAAGCTTTGATGATAAAACCAACAACAA
			TGTTTTTATGAGAAAAAAAGACAATACGATTGACTATAGGTACTTTATTG
	30		AACCTAACATCATGACTAGTAATATTGATGATTATTATTAGAAAAACCT
			GTTGCTTTTCAGTTAGAACAGTTTCAAAAAGAACTAATTGATAGTAATGT
			CAATCCTCAATTAGTCCAATTAGTAGTTGATGATGCAACTATCTTTAGTG
	35		CTTTTCAAACTATTAATAGTGTGATTAAAAACCCCCCAAGAAACCATCAGG
			TGGTTATGTATTGAACTAATAGGTCAACTCAATAAAACCAACAGTTCATT
			AACAGCTAATTTAATTCAAGATCTAATTACCCTAATTGAAATGCTAAAAG
		128401	. CAGCAAAGGTTAACCAAAAACAAGCTAAGCAGTTAATTACTTTAATGATT
	40		GAAACTAAAAAAGATCCAAAATCGCTAGCTAAGCTCCATAATTTAGAGCA
			AATTACTGATCCAAAAGAGTTACAAAAGATCATTAAAAAAATCTTTCAGG
			AAAATGAAAAAGAGATCCTGAAAAACATTGATAGAATTGAACGGATTCAA
	4 5	128601	AAGTTAATTATTGGTCAAGTTATGCATAAGACCAATAATCGAGCAAACCC
		128651	L CCAACAAGTTTTTATAATTGTTGAAAATATGCTTCATGAAGTTCGGGAAA
		128701	1 GAGATAGCTAAAAAAAATCAAATTATTTATCGCTATATAATCCTTAAAAT
		12875	1 TCAAAGCTTTGAATGACCTGCTAACACCCGTATCTTCTCAGAACGCCAAC
	50	12880	1 TAGAAATCCGTTTCAACTCCTCACGGAGTCAAATTCGCTCTGTTCTCGCT
		12885	1 ACGCTTTTAAACAAAAATATAATCCGCTACACTAAAAATACCCCTGGTTA

	128901	${\tt TTTTGTGTGTAAAGATGTAGGCTTTAGTTTTTTCATAAAACCCAGGATA}$
	128951	ATCTGAAGGTGAAATATGCTAAACTTTCAACTTTGATTAAAAAGCTGTTA
5	129001	${\tt TCACAGGATGATGCTAGTGTTTTTGCCAATATTGACAGTACTGTGCACCT}$
	129051	${\tt TGATAAATTTAAGGGAATTGAAGCTAAGTTTTTTGATGAGAATAAAAAAC}$
	129101	${\tt ACTTTTTAAACGTTTGTTTTTTTGCTAAAGATGATATTTTAAACATCCTT}$
10	129151	GATGAAAACAACCTCCAGCAACAGTTCTTCAGGGAGTTTGCTTACAATGG
	129201	GATTGCTATTGAAAAACGTCATTGTGTTACCTCTGTTGACAAGGAAAGTG
	129251	${\tt GGTGCTTGGTGATGTATGACATGTATTATGATGACAATGATAATTTTGTA}$
	129301	${\tt GTTGCTAGCAAAAGTAACTTCCTTAACCCTGAATTGAAAGTAATCAATGC}$
15	129351	TTAAAGTGAATGCTGATTTTTTAACTAAAGATCAAGTTATCTATGATTTA
	129401	GTGATAGTAGGTGCCTGGCCCTGCTGGGATTGCTAGTGCCATTTATGGTAA
	129451	ACGTGCTAACTTAAATTTAGCAATTATTGAAGGAAACACTCCAGGAGGGA
20	129501	AGATAGTAAAAACTAACATTGTGGAAAACTATCCTGGTTTTAAAACCATA
	129551	ACTGGTCCTGAATTAGGTCTTGAGATGTACAACCACTTGTTAGCATTTGA
	129601	ACCAGTTGTTTTTTATAACAACTTAATCAAAATTGATCATCTTAACGATA
	129651	CATTCATCTTGTATTTAGATAACAAAACGACAGTTTTTAGCAAAACTGTT
25	129701	ATCTATGCAACAGGGATGGAAGAGAAAACTTGGCATTGAAAAGGAAGA
	129751	TTATTTTTATGGTAAAGGGATTAGTTATTGTGCTATTTGTGATGCGGCTC
	129801	TTTACAAAGGTAAAACAGTTGGTGTTGTAGGAGGAGGTAATTCTGCAATA
30	129851	CAGGAAGCAATTTATCTTTCAAGTATTGCTAAAACAGTTCACCTTATTCA
	129901	CAGACGTGAAGTGTTTAGAAGTGATGCATTACTAGTTGAAAAAATTAAAAA
	129951	AAATTAGTAATGTAGTTTTTCATTTAAATGCTACTGTAAAACAGTTAATA
	130001	GGTCAAGAAAGCTCCAAACTGTTAAATTGGCAAGCACAGTTGATAAATC
35		AGAAAGTGAAATTGCAATTGATTGTCTCTTTCCTTACATAGGCTTTGAAA
	130101	GTAATAACAAGCCAGTTTTAGATCTTAAGCTTAATTTAGATCAAAATGGT
		TTTATTTTAGGAGATGAAAATATGCAAACTAACATTAAGGGTTTTTATGT
40		TGCTGGGGATTGTAGAAGTAAATCATTCCGGCAAATTGCCACTGCAATTA
		GTGATGGGGTAACAGCTGTTTTAAAGGTTAGGGATGACATTTAGTACACA
		GATTAAAGCTGAACTGGTCCAAAACAAATTAATTGATAAACACTGAAATG
		TCTTTTTAGCAGGTTTTTTTCAAAACAACTTAAAGCTACTTTACAACCGT
45		AACTGAAGTTTTAAAGTGCAATCTGAAGCATTAAAGGAACAATTTGTTCA
		AAATCTTAAGTTTGACTTTAAGACAAAAGCTAGTAAGAAATACTTTCTTT
50		TTGAGTTTAATGCAGATATTAACGTAATTAACACTCTTTTAAAACTTGAT
		GTGACAACTAGTGAATTGGTAGTTAAACAAGTTTATCTCATTGCTGCTTT
		TTTAAGTGGAGGTAGTGTTAGTGATTTAATAAACTCCAATAACTTTCACT
	130651	TGCAAATCAGTTCCAACAATGAGTTTCAAATTCAACAACTTTTAAAAATTC

	130701 TTTAGTTTTTTAAAAAAACAGTTAAACAAAACCAGTTAGTT
	130751 TAAAAGTTATGAAAAGATCTGTAATTTTTTAAAACTGATTCAAGCCTTTG
5	130801 ATGGTTATCTTGCTTTTGAAAATAAGCAACTAGAGAAAAGTTTTACTTTA
	130851 AACCAGTTAAGAAAAAGTAATTTGGAAGTTGCTAACTTAATGAAGACAAT
	130901 CAGATCTAATAATCAAACTAATCAACTCCAACTAAAATCATTTATTA
10	130951 GTAGTAGTTTTGCAAAAAGACCGCTTAATTTTCAGCGTTATTGCTTAATT
10	131001 AAAAGTGATCATCCTGATTGATCTTTAGAACAGATAGCAAACTTTTTTTT
	131051 CACAAAATATAACATAAAGATTAGCCGCAGTGGAATCCAACATTTTAGTG
	131101 TTAATCTAAAAAAACTATGCCAGTAGTTTAAAATTAGTTCACAAGCAATG
15	131151 CATCCAATCCAAATAGTAATGTTCATTATGGCTGTTATCTGTTTAATTAT
	131201 TGGACTTTTGCTTTCTAACCATGGTTCTACTGGAGGATTAGCTTCTCTAT
	131251 CAGGTCAGGACTTGGAGATCTTTCGTAAAACCAAAGATAGGGGTTTTGTA
00	131301 AAGATCTTACAGATTATCATGTTTATCTTAGTAGTTTTATTTTTAATTCT
20	131351 TGGGTTGATATTTAGTTTTGCACCAAGATAACAATGAAGGTTTTAACTGA
	131401 ACTCCAAAAGCAGATATTTACCATTGTCAAAAAGGAAAATGGTAAACCTA
	131451 TTCCCCCTGGAATAGTGGTAAGAATGATGGAAAATAGTCCTAATTTTCCA
25	131501 GGTAAACATCTCATCTATCGGGCCATTGATGATCTGCTTGATTGA
	131551 CTTAAGGAAAGCTGGTGGGGTTACAAACCAGCTATTAGTTAACTATGAAC
	131601 CTGCTGAGCCTTTACTTGATAAAAAACTACAAGGGATTTTAACCTTAGGA
	131651 AATAAGAATAGTGGTTTTATCCGCTCTTTGGATGATGATAAAACTGTGTA
30	131701 TTATGTCCATTACTCTAATTTAACTGGAGCTTTAGATGGGGATCTTGTGG
	131751 AGTTTTGTAAATTAGATAAACCCCAATTTGGTGATAAGTTTGATGCTGCA
	131801 GTTATTACTATTCTAAAAAGAGCAAGAATCTTGTATGCAGGTAATTTTTT
35	131851 AGTAGATCAAAATGAGTTTGCCTTGGAATACAAAATTGTTGCTGATAACC
	131901 CTAGATTTTATTTAACTATGATTGTAAATCCTGATTCTATCCCAAATAAC
	131951 TTAGCATCTAACACCAAGATAGCTTTTCAAATTGATGAGTATGATCCTGA
	132001 TAACAACTTATGTAAGGTTTCTGTACAACAAGTTTTGGGTAACAATGATG
40	132051 ATCCGCTAATTAATATAAAAGCAATCATGTTGGACAATTCCATTGTCTT
	132101 GAAACTAACGATGTAGTTGAACAGCATGCTAACAAGTTAAGTTTTGATAC
	132151 TGAAGAACAACATAAAGCTTACCGTCAGGATTTAACTGATTTAGCTTTTC
45	132201 TGACTGTTGATCCTACAACATCAAAAGACCTTGATGATGCTATTTATGTC
	132251 AAAACAATACCAACAGGTTTTGTGCTTTATGTAGCTATTGCTGATGTTGC
	132301 ACACTATGTTAATAGAAATAGTGAAATAGACATTGAAGCAAAACACAAA
	132351 CAAGCTCAATCTATCTACCTGGTCATTATGTTGTGCCCATGCTACCTGA
50	132401 CAATTGTCAAATCAGCTCTGTTCTTTAAATCCAGCACAAAAACGTTATG
	132451 TGTTGTTGTGAGATTAGTTTTGATAATCAGGGAAGGATTAAAACAAAC

	132501	AGCTTTACCCAGCAACAATTATTTCCAAAAATCGTTTTAGCTATGATCAG
	132551	${\tt GTTAACAAGTGGTTAAATAAATAAATCAGAATTAAACTGTGATGAAACAGT}$
5	132601	${\tt TATCAACAGCTTAAAAGCAGCTTTTACACTAAGTGATCTAATTCAAGCGC}$
	132651	AACGTCAAAAACGCGGTACAATTGATCTTTCACACAAAGAAACTGAGATA
	132701	${\tt GTTGTTGATGAACATTATTTTCCCATTAAGATAAATTTTTTGGTTCACGA}$
10	132751	TAAAGCTGAAACCATGATTGAAAATCTCATGGTAGTGGCCAATGAGACAG
70	132801	${\tt TTGCTTGGGTGTTAACTAACAACAAAATTGCTTTACCATACAGAGTTCAC}$
	132851	$\verb CCAAGACCAAGCAAAAAGAAGTTACAAAGTTTGATTGAAACAGTTGGTGA $
	132901	GTTGAACATAACTAAACCCCAATTTAACTTAGATACTGTCACTTCAAGCC
15	132951	${\tt AAATAGCTAGCTGATTAAATGAAAACAAAGATAATCCTAGTTATGAGATC}$
	133001	${\tt TTTGTAATCCTCTTATTAAGAACACTAGGCAAAGCTTTTTATAGTGTTAA}$
	133051	${\tt TCCCCTGATGCACTTCAGCATTGGTTCTAACCACTATACCCACTTTACTT}$
20	133101	${\tt CACCGATTAGAAGGTATATAGATCTAACCATTCACAGGTTGTTGTGAATG}$
20	133151	${\tt CATCTTTTTACTCCCGATCAATTCACTGATAATGAAAGAGATCAACTCAA}$
	133201	ACAAGAGTTGGAAAAAATTGCTGATACAGTTAATGATACAGAGATTAAAA
	133251	${\tt TTATCAATTGTGAAAGAAATGCCAATGATTATCTAACAACGCTGTTATTA}$
25	133301	${\tt TCAAAACAAATTGGCAAAACCTTCAGCGGATTTATTTCAGCAATTACTAG}$
	133351	$\tt CTTTGGAATTTTTATGAGAATGGATGAAAATAACTTTGATGGGTTAATCA$
	133401	${\tt AAATTACAACTATCCCTGATGATTTCTTTATTTTTGAAAAGGAAAAATG}$
20	133451	$\tt GTATTGAAAGGAAAAAACTAATAAGGTTTATAAAATTGGCGATCGTTT$
30	133501	${\tt GGAAGCTAAACTAAGTGAGATTGATTTCATCCAAAAACGTGCTATTTTAA}$
	133551	${\tt CACTCATATAATTAGCCAATGGTTGTTAATATCCTGCTTTTTATTACCCT}$
	133601	${\tt TATTTTTTACTTTTACTGTTTGTTTTTTAATTGCTTTTGCATTTCTAA}$
35	133651	${\tt ACAAACGGGTTAGAAATTATGTTGTACGTACTTGAACTAGTGTTTTCAGT}$
	133701	${\tt AAGTCCAAACAAAACCTTGATAAAAAGAACTTTTTTGACAATTTAACTTC}$
	133751	${\tt AACTTTATTAAGACTTTCAGTTGATAAAATTGGGGGCTATTATTGCCATTG}$
40	133801	${\tt AAAAACGTGATTCACTTGAACCTTATATCAACATTGGTTATCGGGTTAGT}$
40	133851	${\tt TCTGATTTTCCCCTGAACTGTTAGTTACTATTTTTACAACAAATCATC}$
	133901	${\tt TCCTTTACATGATGGAGCGGTGATTGTTAGAGATTACAAAATTATTAGTG}$
	133951	${\tt TCTCTTCTTACTTTCCAATGACAAGACAATTAATTGATGTTTCATATGGT}$
45	134001	${\tt TCAAGACACAGAAGTGCCTTGGGATTAAGTGAAAAGTCTGATGCAGTTGT}$
	134051	${\tt TTTTATTGTTAGTGAAACAACTGGTAAAATATCAGTTGCTTTAAAAGGGGG}$
	134101	${\tt TTATTAAAACCTTGTCTTCCAACTCAGATAGGTTGCAAGATGAAATTATC}$
50	134151	${\tt CATTACTTGTCTTCAAAGTAGGATTAATCACTTTTCATTCTGGTTTTTTA}$
50	134201	${\tt AACCATGGATTCAAAGGGTTAATTCTTTGGTAAAAAAAGCGTCCCTGTAA}$
	134251	$\tt GTGATCAAATTCATGCTGTAAACACATTCCAAATAGTCCAGTTGCTTTAA$

	134301 TGGTAATCTCTTTTTTTCAAACCAATCATAACCTTTAATAGTGATCCAT
	134351 TCACTACGAATTACATAACCTTTGTGCTGCTTTTTAACACTTAAACACCC
5	134401 CTCACCACTTTCTAAAAATGCTTTATTTTCACTTTGATCAATAATTTTAG
	134451 GATTGATCAGTAGGCACTTTTTTTTTTTTTTTAAATCATTGAGGTGGATG
	134501 TAAAACAGTTGTTTTCAATAGCCAATCTGGTTAGCAGCTATCCCAATTCC
	134551 TGGAATAATGTCATATTCTTGTGCTTTACCATCATATGAAGCATCAACAT
10	134601 ATGCAATCATCTTTTTAATACAGGTTTCAATTTGCTCATCTATTGGAAAA
	134651 TTAACAGCTTCAGTTGGCTTGTTAATCAAAGCATTATCATCAAAAACAAG
	134701 CCAAGTTTTAGTTGGTTGAAAAGTCATTGATAAAAACAGTAAAGTTAAAA
15	134751 TTATTCTAACAATTGAAGTGAACAATCAGGGGAGAATTTTTGTCATTACT
	134801 GGTCCTAGCGGTGTTGGCAAAAGCACCCTTGTTAAAGCCTTATTAGATCA
	134851 TTTCAAAGaACAACTGTTCTACAGTATCTCTGCAACTACAAGAAAAAAGC
	134901 GCATTAGTGAAAAAGAGGGAATTGATTATTTTTTAAAGATAAAGATGAG
20	134951 TTTGAAAACTTAATAAAACAAGATGCTTTCATTGAATGGGCTTGCTATAA
	135001 TAACCATTATTATGGAACGCTCAAGTCTCAAGCTGAACAAGCAATTAAAA
	135051 GCGGAATTAATTTAATGCTTGAAATTGAGTATCAAGGTGCTTTACAGGTT
25	135101 AAAAGTAAATATCCTCATAACGTTGTTTTAATTTTCATTAAACCACCTTC
	135151 AATGCAAGAGTTGTTAAAACGTTTAAAAAAGCGTAATGATGAAGATGAAA
	135201 CCACAATTAAAAAACGTTTAGAACAAGCTAAGATAGAGTTTCAACAGATT
	135251 GATAATTTTAAGTATGTTGTCACTAACAAAGAGTTTGATAAAACCCTTAA
30	135301 TGAGTTGAAATCAATCTTACTATCTGAGTTTATTTAATGCAAGCTGCTAA
	135351 TGATCATTTCTTTACCGGTTTATCAAAAAAAGGTCCTGTAAGAAAGGAAA
	135401 ATCAGGACTTTTATGGATTTAGTTTTAATCAAAATAACCTACTAATAGTT
35	135451 GTTTGTGATGGTCTTGGTGGTTATAAGGGTGGCAAGATTGCTAGTAACTT
	135501 AGTAGGTAAACTCTTTCTTAGTTTATTTGAAGGTTTTGAATTTAACCAGT
	135551 GAGATGAAACTACAGTTAAAAAGTGGTTTGAAAATACTTTAATACAAGCA
	135601 CGCTTTCAACTAGAAAATTGTTTTCAAACAGTTTATGAAGCACAAATCCA
40	135651 GTTTGCTAGGATGGCTAGCACCTTGGTCTTGGGAATTTTAACTAAAAGTG
	135701 ATATTTATATCTTTTGAATTGGTGATTCCAGAGCTTACTTA
45	135751 AACCAAGCTAAGTTAGTTACTAAGGATCACAATCTTTATAACCAGTTAGT
	135801 TGCTATGAATGCTGATGAGAAATTACTTTTAAGTTATTCTAATCAACTTT
	135851 TAGCATTAACAAATACTATTTCCAAAGAAACAAAAAGACCATTAGTTTAT
	135901 GGTTTTTATAACACAAAAATTGAACAACAAGAATTTTTATTATTGTGTTC
50	135951 TGATGGACTTTATAACTTTGTTGAAAAAGAGCTTTTTTTT
	136001 CTAATTCTAAAAACCTAAAACAAGCAGTGTTTAATCTTTATAGAAAAAGT
	136051 ATTGAAAATGCAAGTAATGATAATATTACTGCTGCCCTTGTTAATCTGC

	136101	${\tt AAAATG} {\tt GAAGCAATCTTAAAGATAGGTGATATTGTTGAAAATAAGTATCA}$
	136151	${\tt AATTGAAAAGCTTTTAAATAGGGGTGGGATGGATTCCTATCTTTTTTAG}$
5	136201	${\tt CAAAAAATTTGAACTTAAAAAACTATGGACCAGTTCAAAAAAAA$
	136251	${\tt GGACACTTAGTTTTAAAGGTGGTTCAAAAAAATCCTAAGATTAATGAAAA}$
	136301	${\tt TAATTGGAAAAAGTTCCTTGATGAAATGGTAACCACAACTAGAGTGCACC}$
10	136351	${\tt ATTCTAACCTAGTGAAAAGTTTTGATGTGGTGAACCCTTTTTTGAAAATA}$
	136401	GTTCGTGGTAATAAAACAATTGCTCTCAATCAGATAGTGATGATTGCAAT
	136451	${\tt GGAGTATGTTGATGGCCCTTCTTTAAGACAATTGCTTAACAGAAAAGGCT}$
	136501	${\tt ACTTTAGTGTTAGCGAAGTAGTTATTACTTTACAAAGATAGTAAAAGCC}$
15	136551	${\tt ATTGATTATCTCCACAGTTTCAAGCACCAAATTATCCACCGTGATCTTAA}$
	136601	${\tt ACCTGAAAACATCTTATTTACTAGTGATTTAACTGATATTAAACTATTAG}$
	136651	${\tt ATTTTGGCATTGCTTCAACAGTAGTTAAAGTTGCTGAAAAAACCGAAGTT}$
20	136701	${\tt TTAACTGATGAAAATTCACTGTTTGGCACAGTTAGTTATATGATTCCTGA}$
	136751	${\tt TGTTTTGGAAAGCACAGTTAATAAAGCTGGTAAAAAGGTTAGAAAACCAC}$
	136801	${\tt CCAATGCCCAGTATGATATCTACTCGTTAGGAATTATTCTATTTGAGATG}$
	136851	${\tt TTAGTTGGTAGAGTTCCATTTAACAAGTCAATTAACCCCCAACAAGGAAAG}$
25	136901	AGAAACAATCCAAAAAGCACGCAATTTTGACTTACCTTTAATGCAAGCAA
	136951	$\tt CTAGAAGTGATATCCCAAATAGCTTAGAAAATATTGCTTTTCGTTGTACT$
	137001	${\tt GCTGTGAAAAGAAAAAAAAAAGAACT}$
30	137051	${\tt TTTAGAAGATTTGGCGAATTGAGAAAATGAACAAGCGATGATTAAACCTG}$
	137101	${\tt CTAATGAAAGGGTTTTAGAAGGGCAGGTGGAAATTAGAGAAATGATGCTT}$
	137151	${\tt GAAAAGCCCTTAGCTTGGTATTTCAAAACTTGAGCCTTATCAATCTTTAC}$
	137201	${\tt TATCGTTTTATAGGGTTAATTATTGCTGCAATAGTTCTTTTATTAATTT}$
35	137251	${\tt TTAATGCCAGATTCTAACTTTGGGATAGTGCTTCAGTCATTAGCAAAACA}$
	137301	${\tt ATGCAAAGTATTTGGAATAACCAGATAATAACTGCTTTTCCTCAAAAGA}$
	137351	AGTTACAGTGAAAAAATGATTTTAAGTTGATGGTTGATAGGGTTCAA
4 0	137401	$\tt CTTGAAGATGGTGCGATCACTAAAGTTTTAGCTAGAAAAAATGAACTTAC$
	137451	${\tt AAGACCAAGGGTTGCTAATGTTGATCAGATTGTTTAATCCAATCACTAG}$
	137501	${\tt TTCAACCTAAGATTAACTGAATTCAACTGTTGAAATTATTGGTATATTTC}$
	137551	AATGCTAAATTAATTGATGAAATACCTATTTTAATAACAAAAACAGACCT
4 5	137601	TGATTTTGATCCAATGGAAAAACAAAAGTTAATCGATTTAAAACAGTTTA
	137651	ACTATCAGTTATTTTTGTTTCTAAAAATGAACCACTACCTTCAGAATTA
	137701	${\tt ATCGATATTTTAGTAAAAACTAAGTGTTTTTACAGGTCAATCTGGTGT}$
50	137751	TGGTAAATCTAGCTTAATTAATCGTTTAGATCCTTCTTTAAAACAAAAGA
	137801	TTCAAGCCTTATCAGTTAATAAATTTGGTAAGAATACCACTACTAAAACA
	137851	${\tt ACACTTTTTCATTTAGAGGCGGTTTTATTTGTGACACCCCTGGTTTTAA}$

	137901 TGTAATTTCTATTAAAAACCTCAAAATTTTAGCAGCCCAACACTTTGTTG
5	137951 GTTTTCAGAAAATGATTAGTAAGTGTCATTTTTCTAACTGTTATCATCAG
5	138001 TATGAAAAAGATTGCTTTGTAACCACAAGTGTTATGAAAAACAGATATCC
	138051 TTCGTGATTGTATGAGAAGTATAGAAAAATGATTAATTAA
	138101 AAAAGTGTTTATGAGTGATAAATTATTAACAATTGACTTAAGTCATGTTT
10	138151 ATGGATTTGATAAAGAAATTATTTTAAGAAATACCAAAAAAAA
	138201 CAAATTCACCAAGATTTTCTAGCTCATAAACTTGCTGATGGTCACATGAC
	138251 TGGGTGGTATGACCAACCTGATCAAAACCACCAATTCCTTTTAAAAACCA
	138301 TTAATCAAATTGACAAAAAGTTTAAAAGTTAAAAGTAACTGACATTGTT
15	138351 TATGTTGGTATTGGTGGTTCTTTTACTGGTATTAAAACAGTTTTAGATTT
	138401 CTTAAAACCAAAACAAAGAACAGGATTAAAAATCCACTTTGTCCCTGACC
	138451 TTTCTGCTTTTCAAGCTGCAAGTGTTATTAAGGAAATTAAAAATAAAT
20	138501 TGGGCTCTAATTACCACTTCTAAGTCTGGTAGAACCCTAGAACCAGCACT
20	138551 GAATTTCCGCATTTTTAGAAACTTATTAAACAAGCGTTATGGCAACAAAC
	138601 ACTACCAAAGAGTAGTTGTTATTACTGATGAAAAAAAGGGATTACTAACC
	138651 AAAATGGCATCAAATCATGGTTACCAAAAGTTAGTTATTGATTCAAATAT
25	138701 CGGTGGGCGTTTTTCAACTCTATCTCCTGCTGGTTTGTTACTAGCCAAAC
	138751 TTTTTGGTCATGATCCTAAGGCCATCTTAAAAGGAACATTACAAGCCAAA
	138801 AAGGATTTGCAAACAACTTCACTTGAAAACAATTCTGCATACCTTTATGC
	138851 AGTAGTTAGACATTGACTATACACCACAAAAAAATTCAAAATTGAAGTTT
30	138901 GCATTGCTTATCACAGTTTGTATGAATATTTGTTATTACAGCATCGACAA
	138951 CTTTTTGGTGAATCAGAAGGTAAGAACGATAAATCTTTATTTCCTACTTT
	139001 TTCGATTTTTACTGTTGACTTACACTCAATGGGACAACTCTATCAAGAAG
35	139051 GGGAAAAAGTGTTTTTGAAACAGTAATTGATGTTAAAAAATCCACTTGTT
	139101 AATATTAATTTACCTCCATCTGATTTTGACAATGATGATGAACTTGATT
	139151 CTTGTTAGATAAAAGCTTAAATGAGATTTCAGATGTTGCAATTGATTCAG
	139201 TTATTAAAGCGCACTACCAAGCAAATGTAAGCATTATTAAATTAACTTTA
40	139251 AAAGAACAATCTGCATTTATGTTTGGTTATTTTTACTTTTGACTCTCTG
	139301 TGCTACAGTGATGAGTGGATCATTATTAGGGCATAATGTCTTTAATCAAC
	139351 CTGGCGTTGAAGTTTATAAAAAGTTAATGTTTGAAAAACTAAGAAGTGG
45	139401 CACTAAGGTTGTTTTTCACTCTTACCACTTTTAAATAGGTTTGACAAG
40	139451 CACTTTAGAAAGTTACTTTCAAGATGGATTGAGGTTAATCCATTATGA
	139501 GTGATGGACCAATTTGTTCATAATACTGCTTTTAAAGGTGAATATTTGG
	139551 TGAATTGAAAACAATAGGTTTTGATGTTAATGTCCATTTAATGGTGGAA
50	139601 AGATCATCCCTCAAATAAATTTTTATCTTTCACAACCTAATGTGAAAAG
	139651 ATTTCGTTTCATGTTGAACCATTTAGTTTTGCAAAGATTAAAGAACTAA
	139651 ATTICGITICATGITGAACCATTIAGTITTGGGGGGGGGG

	139701	${\tt CCAACTAGTTAAAGAAAATGGTAAAGAAGTTGGTCTTGCTTTAAATTTA}$
5	139751	${\tt CAACCAATTTACAACTATACCAACCATTTTTTACAACCATCGACTTTATC}$
	139801	${\tt ACTTTAATGAGTGTTCCTCCTGGTAAAGGTGGTCAAGCTTTTAACGAAGC}$
	139851	${\tt TGTTTTTACAAATTTAAAGATTGCTAACCATTACAACTTGAAAATTGAGA}$
	139901	${\tt TTGATGGTGGGATTAAAGTTAATAACATTGATCAAATTAAAGCCTTTGTT}$
10	139951	${\tt GATTTCATTGTAATGGGAAGTGGCTTTATAAAATTAGAGCAGTGGCAACG}$
	140001	${\tt TCAAAAATTGTTGCAAACAATCTAATTAAACTTTATTGATGAAATCAGTT}$
	140051	${\tt ACAGTCAAGCAGTTACTACAAACCCCACGAAAATTTAATAACAAGCAGAT}$
	140101	${\tt TAAACTATCAGGTTGGGTTAAAAATAAACGTGCTAGTGCTAACATCATCT}$
15	140151	${\tt TTCTAGCAATTAGTGATGGCTCTAGTATTAATACCCTACAAGCAGTAGTA}$
	140201	AAACAAGAAGATAACCCCCAGGTTTTCTCACTGTTACAAACTGTTAATTT
	140251	${\tt AGCAAGTGCTGTTATGGTTTGAGGGGAAATTATCTTAACCCCAAAAGCTA}$
20	140301	${\tt AACAACCACTGGAGTTGAAATTAAAGCAGGTGAGTTTATTAGCACAAGCA}$
	140351	GAGTCTGATTATCCACTGCAAAAAAAAGAACATAGTCAAGAGTTTTTTAG
	140401	AAGTAATGCGCATCTAAGAGTAAGAGCAAAAACTTACTTTGCAGTGATGA
	140451	${\tt AAATAAGGAGTGTTTTGTCACACGCAATCTTTGAATACTTCTTTAAAAAT}$
25	140501	GATTTTATCTTAGTGCAAAGCCCTATTTTAACTAGTAATGATTGTGAGGG
	140551	${\tt AGCGGGGGAAACATTTGTAATTAAAGATAGTGAAACTTTTTTTAATAAAA}$
	140601	CGACTTTTTTAACAGTAAGTGGCCAGTTTGGAGCAGAAGCTTTTGCGCAA
30	140651	GCATTTAAAAAGGTTTTCACCTTTGGTCCTACTTTCAGAGCTGAAAAATC
	140701	CCATACTAATCGTCATCTTAGTGAGTTTTGGATGATCGAACCTGAAATTG
	140751	CATTTGCTAACTTAAAAGATTTAATGCAGTTAATACAAAACCTAATTAAA
	140801	TTCTTAATTAAAAAGTGATGGAAAATGCTAGTGATGAACTAAATGTTTT
35	140851	AGCAAAGCAATTTAGCAATGACATTATTAGCAACTTAAAGACAATCATTA
	140901	GTACTAAAAATTTCCAATCATTGAATACAGCAAAGCATTAGCGATTCTA
	140951	AAGGAATCTAGTGATACAAAAAAAACTAATTTTGAACTAAACGACTTTAG
40	141001	TTTTGGTATTGACTTAAAAACAGAACATGAACGCTTTTTGTGCGAACAAT
	141051	ATTTCAAAATCAACCGCTTTTTGTTATTAACTATCCAAAGGAGTTAAAG
	141101	GCATTTTACATGAAAACAAATACTGACAATAAAACTGTTGCTGCAGTTGA
4 5	141151	TCTTTTATTACCAAAGATTGGTGAGATTTGTGGGGGAAGTGAAAGGGAAA
	141201	GTGATTTAAACCAACTTAAGAATAGGTGTCAATCTTTAAACATTGACACA
	141251	AAAAGTTTGAACTGATATCTTGATATGAGGAAATGGGGTTATTTTGCTAG
50		TGCAGGTTTTGGTTTGGGCTTTGATAGATTATTAGCTTATATATGTGGAT
		TGGAAAACATCAGAGATGCTATTCCCTTTCCCCGTGTACATGGCACCATT
	141401	AACTTCTAAATTCGCTGCTTATAAAAAAAAGATTGCAAACTGGTTAACAG
	141451	TTTACAGAATTTTTATTGCTTTACCTACTATTATTTTTATTGCTTTAGAT

	141501	AATCAACTAGGAGTTTTAGCTAACTTTTCTGTTGGTGCAATTAGCATTAG
	141551	TTTACAGATCAGTTTATTGATTGGAGGATTTTTGTTTTTAACTGCAGTTA
;	141601	TATCAGATTATTTAGATGGATATTTAGCAAGAAAATGGCTAGCAGTTTCT
	141651	AACTTTGGTAAATTATGAGACCCCATTGCTGATAAAGTGATTATCAATGG
	141701	${\tt TGTTCTTATTGCACTAGCGATTAATGGATATTTTCACTTTAGCTTATTAA}$
	141751	${\tt TTGTTTTATAGTCCGTGATCTTGTGTTGGATGGAATGCGGATTTATGCT}$
10	141801	${\tt TATGAGAAAAAGGTGGTTATTGCTGCTAACTGACTTGGAAAATGAAAAAC}$
	141851	${\tt TATCATGCAGATGGTTGTATTGTTTTAGTTGTTTGGAGTTTTA}$
	141901	AACAAAGTGAAATAGCTTCTTTGAATAGTGGACTGTTCTTTTGATTACTA
15	141951	${\tt ACTCAACTGCCATATTATTTAGCAGCAGTTTTTTCAATTTGGTCTTTCAT}$
	142001	TGTTTATAACATCCAAATATATCAGCAACTAAAGGCTTATAACTCCAAGT
	142051	TATAATCCTTATTAGGCATTGGAATAACTTTGTTTGCCAATTTAATAGCA
		GAAAAACTCCAAAAGTTACAACTTAGTGTTGCAACAGCTGAATCAGTTAC
20	142151	TGGTGGCTTATTAGCTCATTGTTTAACTTCCATTGATGGTGCTTCTAACT
	142201	ATTTTAATGGCGGTGTTATTGCTTACAATAACCAAGTTAAGATTAACTTA
		CTGAATGTTCAATCCTCCACAATTGCAAACCATGGGGCAGTTTCCAGTTT
25		CTGTGCTAGGGAGATGGCAGTTGGGGTTAAACAAAAGTTTCAAGCTGATG
		TGGGTATTGCTTGCAGTGGGATAGCAGGTAGTAAAGCAGTTGAAAATAAA
		GCAATAGGATTACTTTTTTCTGTATTATTATAGGAAATAAGGCTTATGA
		TTTTGAGTTTGAAATGAACCAAAATAATCGTAAGGATAACATTGAATTAT
30		TTACCAATAAGATCTTGGAATCTTTCCACTATTTGTTAACAAAGCTAGCT
		TAATCTAAGTTATGAAACGTACTTTAAATATAGGTATTGTTTTGTGTGAA
		AATTTTCTTTCAGACCAACAAAATGCTGTTGATAGTTACACCCAAGTTTA
35		TGAAGATGTTAGGATGTTTGAATTTGGGTTAAAACTCTTTCAATCATTAC
		. CTTTTAACATCCAAGAAACCCTTATATTTTGTAATGCTGAACAACATAAA
		ATAGTTGATAAAGCTGCTAAAAAATACAAAAACACTACTGTGTTTTTTTC
		ACGTGATACTGATGTAGCTAATGTTTATGAAGCTAAGGTATTTATCCAAG
40		L AAAAATACAAATTAACCCAAGATTACAAAAAAAGAGGTGTTAGCTCTTAT
		L TATGACAGCTGTTGCTTTATCTTAATTGAAGCGAATCGTCCATTAACTGC
45		L AATAAAGACAGTTAAAAGTGTTTATGAAAAAGCACTGATAGAAAAAGCAG
		L CTATTGCAGTATTACCATATAATGGTACACTAATGAATGGTAACAATGAT
		l GTTGTCTTTAGCCACTTGCAAGATAAAAATAGGTTTAACTATTGAAAACA
		1 AAGCAAGGCTTATGAAGTACAATACCCCCAAGCATATACTTTAAATAAA
50		1 TTAATCAGTTTTCAAAACAGCAATTTCTAAGGGCTAGAAGTATGTTGGAC
		1 TTAATGAAGATTTCTAATAAATCACCCTTAAGTATTGTTGATGGTAGTGC
	14325	1 TTATGCTTTTAGGGTTGTTACCAACCTTGATTTTGAAATTTTATTAGGTA

	143301	${\tt TTTTAAAAAATGGATAAAAATATTTTTCAATTAGTACAAAGTTTTGCTAA}$
5	143351	${\tt AACGCAAAATGTGCGAGCTAATTACACCTCACAAGACAAAAATATTAGTT}$
	143401	${\tt TAGATTTTGTTAGTTTTGAAACAGTTAGTCAATCACTAACAGGTTTTCTA}$
	143451	${\tt ATTTTTAATAATTTCAATAAATTGTTACAACTAATTGAACTGATAAAACA}$
	143501	${\tt AAAGCAAACATGATTATATGTAGATCAGCTCTGAATTGTTGATCTTTCCA}$
10	143551	${\tt ATAACAAAGCCTTAACTGATGCTACTGTTTGGATTATTAAACAAGAAAAA}$
	143601	${\tt TTGCCTGTTTCAGTTGCGGCTTTTAGCAACCAACTCAACCAAGTTTA}$
	143651	${\tt TCGCAATTCATCCACAAGTCCTTTGTATCTTAGTTATGTCAAACCAATCG}$
	143701	${\tt AAGTTCAACAATTTTTTACACTTTCTCCATCCATTAACAATAAT$
15	143751	${\tt TTAAATCAAAATCCTTTAACTGAATCACCATTTGATAACAATAATCAGCT}$
	143801	${\tt GTTTCAAGCAACAAAGAGCGTTGAACCTTCAATGGAAACAATGGAATTTT}$
	143851	${\tt CCCGGTTTATGGATGAATTTGATCAGATTACAAAGAACTTTTCTGATATA}$
20	143901	${\tt GAGCTTGAACCTATGCAATTCACCCAAAGTTTTGATGATTGGAGCAAAGA}$
	143951	${\tt CTAGGGTTGCAATAGTTGGCGGGATTGGTTACATAGGTAGTTGTTTTGCT}$
	144001	AGTTTTATCAAAGAACAAAATGATAAGCTAATTGTTACTGTTATTGATAA
	144051	CAACAAAATAACCATGTAATTAAACTCTTAAAAAAGATTGGAATTGAAT
25	144101	TCTATTTTGCTGATTTACTAGATAGACATAAGCTAACTGAAGTAATTGCA
	144151	GCAATTCAACCTGATGTGGTATTTCACTTTGCTGCTAAAACAAGTGTAAG
	144201	TGAATCAGTACATAATCCATTGAAGTACTTTGATTGCAATGTAATTGGTA
30	144251	CTTTAAACCTAATTAGTGCAATTAGTAACTTACAGAAGCCAATTAAATTA
	144301	TTTTTCGCTTCTAGTGCTGCAGTGTATGGTCAAACAACTAATAGTTACAT
	144351	TAGTGAAGAGTTGTAATAACTGAAACACAAGCAACCAATCCTTATGGAT
	144401	TGAGTAAGTTTTTAGATGAATTAATCTTAAATGCAGTTGCCAAAAATAGT
35	144451	CAACTACAAGTTGTTTGCTTACGCTTTTTTAATGTGGCAGGTGCAATTCT
	144501	GCCATTTGGTAATTTTAATGGTAATACCACGCTTTTAATTCCTAACTTAG
	144551	TAAAAGCCTTTTTAAAACAAACTCCCTTTTTTTTATATGGCAATGATTAT
4 0	144601	GCAACTAAGGATGGTAGTTGCATAAGAGATTACATCCATGTTTATGATAT
	144651	ATGTAATGCTCATTTCTTATTATGAAAGTGGTTAAATGATCATCGCCAAA
		TTAAATTTGAAACCTTTAACTTGGGGAGTGGGATAGGAACTTCTAATTTA
45	144751	GAAGTTATTGATATTGCTAAAAAAGTGTTTTATCCTAGTAGATTAAATTT
		AGAAATTAGACCAAAAAGAAGCTGAGATCCAGCAATTTTAGTAGCAAATG
		TTGCTAAAGCAAACCAAACCTTTCAATTCAAAATAACGCGTAATTTGAAA
50		GATATGATAAGTGATGAGCGTAATTTTTATGAGAATTTTTATAATGACGC
		TTATTAAGTGGTGTTTAATTAATGGAAAAAGTTGCCTTCAAAATGGAGCA
		TATCTCCAAAAGTTTTGACAATGGCAAAATTAAGGCTAATGTTGATGTTA
	145051	GCTTAGTTGTTATGAAAATACTGTCCACACCATTTTGGGGGAGAATGGT

	145101 GCAGGAAAATCAACCCTGACTTCGATTTTATTTGGTTTATAAAACCTGA
	145151 TAGTGGCAAGATCTTTATTGGTGAAAAGCAAGTAAATTTTAAATCTTCTA
5	145201 AAGATGCAGTAAAACATAAAATCGGAATGGTGCACCAGCACTTTAAGTTA
	145251 ATAGAAAACTACACGGTTTTAGATAACATCATTCTAGGGAATGAAAGTAG
	145301 GTTTGGGTTTTTACCTTTAATTAATCGTAAAGTAAGTGAAGCAAAGATTA
10	145351 AAACCATCATGGAAAAATATGGAATCTTTGTTGATCTTAAACAAAAAGTT
70	145401 AGTAACTTAACAGTAGGTCAGCAACAACGGGTTGAGATCCTAAAGGTTTT
	145451 ATTTCGTGATAGTAATATCCTTATCTTTGATGAACCCACTGCAGTTTTAA
	145501 GTGATCTTGAAATTCAAAACTTTCTCAAGATTATTGCTAACTTTAAAAAG
15	145551 CTAGGAAAACAATTGTTTTAATCTCTCATAAATTAAATGAAATTAAACA
	145601 AGTTGCTGATACAGCTACTGTCTTAAGACTTGGCAAGGTAGTTGGTAGTT
	145651 TTGATGTTAAAACAACACCAGTTGATAAGATTGCGCTTTTAATGATGGGC
20	145701 AAAGAGTTAAAACAAACTAAAAACACCACAGATTTTGTTGCTAAAGATGA
20	145751 ACCTGTTTTAAAAGTTCAAAACCTGAATTTGTTTCTCAATAAATCTTTAG
	145801 CATACAAGTTCTTAGTGAGGTGCAATAACATCCATAAAGCCCCAACAAATT
	145851 AAGAAAATAAACCATTAAAAGACTTATGGATAATTAGTTTTTTAAATAA
25	145901 ACTAACCACCAGTAACAAAACCCCTAAATTAGTAAAAAGGCTTGATTAATA
	145951 AGTTAGGACTTTCCTATCAAGAAAATACAGATGAAACCATTAGTTTTGCT
	146001 ATCCATAAGGGAGAAATTTTTGCTATTGCTGGGGTTGAGGGTAATGGTCA
20	146051 AAGTCAGCTTGTTAATTTAATTTGTGGAATTGAAAAAGCTGCTAGTAATA
30	146101 AGTTAATTTTTAACAATATTGATATCTCAAGATGATCAATTAGAAAACGG
	146151 ATTAATGCTGGGATTAGTTTTGTTTTGGAAGATAGACATAAATATGGCTT
	146201 GATCTTAGATCAAACCGTGAGGTTTAATACGGTTAATAACCAGATTAATA
35	146251 ACCGTCCTTTTAGTAGTTGAAACTTTTTAAAACCAATGGAGATTGCTCTT
	146301 TATAGCAACACTATTATTAAAAAGTTTGATGTTAGGGGCAGTGCTGAGGG
	146351 TAGTGCTGTTGTAAGAAGACTTTCAGGTGGTAATCAACAGAAACTAATTA
	146401 TTGGTCGAGAAATGACCAAACAAAATGACCTTTTGGTGTTAGCACAAGTA
40	146451 ACCAGAGGCCTTGATATTGGTGCTATTGCTTTTATCCATGAAAACATCTT
	146501 ATTAGCTAAAGCTAATAATAAAGCTATCTTATTGGTTTCATATGAACTTG
45	146551 ATGAGATCTTAGCACTTGCTGATACAGTGGCTGTTATCAATAAGGGGAGA
	146601 ATAGTTGGTATGGGAAAAAGAGATTTAATGGATCGCCAATCGATAGGTAG
	146651 ATTAATAATGCAATAAAAGACTATGACAATGTGGCAATTTAAAAAGTTACT
	146701 TTAAACACCACCTGGTGTTTTGAAAAGACCGATTTTTACATAGCTCTGAG
50	146751 AAACAAATGCAAAGAAGAAGTATCCTCTCTCAGTGGTTTTGATAATCCT
	146801 CTCTTTTCTTATATCGTTTTTACTGATTATTTCAATTCCTGGAGGTAGAC
	146851 GTGCGAGCTTCTTTGCACTGTTTACTAAGTTATTTTTAGATAACACTAA

	146901	${\tt ACTGAAAATTTCTTAAGACAGATTGCTATTTATATCCTAGCTGGATTAGC}$
5	146951	${\tt ATTTAGTTTCTGTATGAGTGTTGGTATTTCAACATTGGTATCTCAGGGC}$
	147001	${\tt AGATGATGGCTGGAGCCATCTTTGGGTTTTAATGATTCTCAAGGTGTTT}$
	147051	${\tt CCAAGTTCATTTCGACCTGGTTTTGGAGGTCAGATTATTACTGTATTATT}$
	147101	${\tt GATGGTAATAGGTAGTGTTAGTGTGGCAGTTGTTGCAACTTTAAAGA}$
10	147151	${\tt TTTTTTCAAGGTTAATGAAGTTGTAAGTGCAATTATGTTGAACTGAATT}$
	147201	${\tt GTAGTGCTTATTAGTGCTTATTTAGTAGAGACTTACATTAAAGATAATAG}$
	147251	${\tt TGGGGGTACAGCCCAATTCTTTTCCTTACCACTCCCTGATGAATTTGCTT}$
	147301	${\tt TATATAACLTCTCTCTTTAACAAAAAGTTTGGTTGATTAGCTTCACTT}$
15	147351	${\tt ATTATTGCTTTCATTAGTGTTATTATTGTGGCAGTAGTATTAAAATACAC}$
	147401	${\tt AGTTTTTGGACACAAATTAAAGTCAATTGGCAGTAGTGTATTTGGTTCTC}$
	147451	${\tt AGGCAATGGGTTTTAATGTTAGAAAATACCAGTTCTTATCGTTTATTATC}$
20	147501	${\tt TCAGGAATTTATCAGGACTATTAGCAACGGTTGTTTACACTGCATCAAC}$
	147551	${\tt TGAAAAAGTATTGACATTTAACAATGTTGGGGATAGTGCTATTTCAGCAG}$
	147601	${\tt TACCAGCTACTGGTTTTGATGGGATTGCGATTGGTTTAATTGCTTTAAAT}$
	147651	${\tt AACCCCTTTAGGATTGTTATTGTTTCTGTTCTTATTGCTTTTGTTAACAT}$
25	147701	${\tt TGGGGCAAGACCTGCTAATTTAAACCCTAATACTGCTAGTTTAGTTTTAG}$
	147751	${\tt GAATCATGATGTATTTTGCTGCACTTTATAACCTAATGGTTTACTTTAAA}$
	147801	${\tt CCATGAAGATACCTAGTGAAGCTGAACATTGGAAAGATAAATCTCACCAC}$
30	147851	${\tt ATATGAAACATATGAAAACAAACTAGCTGCTAACCTAGAGTGACTAAGTT}$
	147901	${\tt TCCAACGCTTCTTGTCAAAACAGAAAAAAAAAAAAAAAA$
	147951	${\tt AATTGGTTTGATACTAGTTTATTTGAACAATATGCAAAAAACAAAC$
	148001	${\tt AATTGTTCAAGAATACCATCACAATTGTGCAACTAATTTAATTGCTTGGT}$
35	148051	${\tt GATTGAATGCAAAGTGGCAATATTAAACCTTCAACTACTTTTAAG}$
	148101	${\tt TTGGAATTTGTTAATTTTAAACACCAACAGAAGTTTGTATTAAATTGGTT}$
	148151	TAAAAATGAAAGTGAATCACTGCGTGATTTCCAATCACAGTTTGAGAGAA
4 0	148201	${\tt TCAATAAGTTAGTGGAAAGGGAGTTTGTTAAGTAACAATGTTAAGTTTAG}$
***	148251	${\tt CACAATTAGAAAGTTGGTTTTTTATCGCTCCAGCACTGCTTTTAGCAGTA}$
	148301	${\tt TTGAGTGGTTATCTCGCTGAACGCGTTGGGATCATTAATATTGCTATTAA}$
4 5	148351	${\tt TGGTGGAATGGTGTTTGGTGGGTTATTTATGGCACTCTTATCGTATGGAT}$
	148401	${\tt TTACAAATAACTTAAATCAATCCGCTCCCTGATCACTATTTATCACC}$
	148451	${\tt ATTCCCTTATCAGTTTTATTTAGTAGTGTTATAGGTTGTTTATTTGCACT}$
	148501	${\tt AGCAGCAGTTAAGTTAAGAGCAGATCATGTTATTGTGGGAACTGGGATTA}$
50	148551	${\tt ACTTGTTGGCTAGCGGAATTACCCTTTTTATTAGTCAGAATGCTGCTAGT}$
50	148601	${\tt TTGTTTTCCGATACTACCTTAAGAGTAAGGTACTTATTTCCCATCCAAAC}$
	148651	${\tt TACTGTTAGTATAGAAGCAATTGGTGTGTTTTTTAGTTTACTTCTGA}$

		148701	TTGGGTTTGTATGGTACTTGATGAGTTTTACTAAAACTGGGTTGAGATAC
			CGTGCGGTAGGTGAGAATCCTAATGTAATTGATACCCAAGGGATTAGTGT
£	;		TTACAAATACCAATGGATAGGCGCAATTTGTTCAATGATGGTAGCTGGAT
		148851	TGAGTGGTAGTTTGTTTTAAGTGTTTCTAACTTTCCCTTTAACAGC
		148901	GGAGATGTAAATGGCTTGGGTTTTATTGCTATTGCCATTATGATTATCTC
	10	148951	AATGTGAAGAATTATCCCTAGCATCTTTATTGGGTTAATCTTTGCATATG
	,,,	149001	CCTATGTTTTTACCAATAGTCAAATAGGATCTAATAGTAATTCCTACTTG
		149051	${\tt TTAAGAACGATCCCTTTCATCATCTCATTACTAGTAATGTTGTTATTTGG}$
		149101	${\tt TTTTCTTAATGTTGCCCCAAAAAATATAGGTAAACATTTTGACAAGGGTT}$
	15	149151	${\tt TAAGATAAACAAAAACCTTATTTATAGTTAAGTAAGTAGTTTTATTAATG}$
		149201	${\tt ATTAAAAACCTGGTGGTGATTGAATCACCCCAATAAAGTTAAAACATTAAA}$
		149251	${\tt ACAATATCTTCCTAGTGATGAATTTGAGATAGTCTCAACCGTTGGTCACA}$
	20	149301	TCAGAGAAATGGTGTATAAAAACTTTGGTTTTGATGAAAATACCTATACC
	20		CCTATCTGAGAAGATTGAACTAAAAATAAACAGAAAAATCCCAAACAGAA
			ACACCTGCTCAGTAAGTTTGAGATCATCAAATCAATCAAAGCTAAAGCTA
			GTGATGCACAAAACATTTTTTTAGCTTCTGACCCTGATAGAGAAGGGGAA
	25		GCCATCTCTTGGCATGTCTATGATTTATTGGATCAAAAAGATAAAGCTAA
			GTGCAAACGAATCACTTTCAATGAGATCACTAAAAAAGCAGTAGTAGATG
			CATTAAAACAACCGCGTAACATCGATCTTAACTGGGTTGAAAGTCAGTTT
	30		GCCCGCCAAATCCTTGACAGGATGATAGGTTTTAGATTATCAAGATTATT
	30		AAATAGTTATCTGCAAGCAAAGTCTGCAGGTAGAGTTCAATCAGTGGCTT
			TGCGCTTTCTTGAGGAAAGAGAAAAGGAGATAGCTAAGTTTGTTCCGCGT
			TTTTGGTGGACAGTTGATGTTTATTAAACAAAGAAAATAACCAAAAAGT
	35		AGTTTGTGCAAACAAGTCTATTCCTTTGGTTTTAAGAGAAATTAACCCTG
			AATTAAGTGCTAGTTTAAAACTGGATTTTGAAGCTGCTGAAAACGTATCA
			. GGAATTGACTTTTAAATGAAGCTTCAGCAACCAGATTTGCCAACCAA
	40		GACTGGCGAATATGAAGTTTATTTATTGATGAACCTAAGATTTACTATT
	40		CATCTCCAAACCCAGTTTATACCACCGCTTCACTTCAAAAGGATGCAATT
			L AATAAGTTAGGATGGTCTTCCAAAAAAGTAACAATGGTGGCCCAAAGACT
			L GTATGAAGGGATTAGTGTTAATGGGAAACAAACTGCATTAATTA
	45		L CAAGAACTGATTCAATTAGGATTTCAAACCAATTTCAATCAGAGTGTGAA
			1 AAGTACATTGAAAAGGAGTTTGGAAGTCATTATTTAGCTGATAAAAATAA
			1 GTTAAAAAGACATAAAAAGGATGAGAAAATCATCCAAGATGCCCATGAAG
	50		1 GGATCCATCCTACTTACATTACTATTACCCCCAATGATCTGAAAAACGGG
	30		1 GTGAAACGCGATGAGTTTCTCCTTTATCGTTTAATATGGATTAGAACAG1
		15045	1 TGCTAGTTTAATGGCAGATGCTAAAACATCAAGAACTATTGTTCGTTTTA

	150501	${\tt TAAACCAAAAAAAAAACAAGTTTTATTACCTCTTCAAAATCACTTTTATTTGAT}$
5	150551	${\tt GGTTATCAAAGGTTATATGAAGAGATTAAACCTAATACTAAAGATGAACT}$
	150601	${\tt TTACATTGATCTTAGTAAGCTTAAAATTGGTGATAAATTTAGTTTTGAAA}$
	150651	${\tt AGATCAGCGTTAATGAGCATAAAACCAACCCACCACCACGTTACACCCAA}$
	150701	${\tt GCTAGTTTAATTGAAGAGCTTGAAAAATCTAACATCGGTCGTCCCTCTAC}$
10	150751	${\tt TTATAACACTATGGCCAGTGTTAATCTAGAAAGGGGCTATGCTAACTTAG}$
	150801	${\tt TGAACCGATTTTTTATATCACTGAGCTTGGTGAAAAAGTTAATAATGAA}$
	150851	$\tt CTTTCCAAGCATTTTGGGAATGTAATTAATAAAGAATTTACCAAGAAGAT$
	150901	${\tt GGAAAAATCTTTGGATGAAATTGCTGAAAACAAAGTAAACTATCAAGAAT}$
15	150951	${\tt TTCTTAAGCAGTTTTGAACAAATTTTAAATCTGATGTTAAACTAGCTGAA}$
	151001	${\tt AATTCAATTCAAAAAGTGAAAAAGGAAAAAGAATTGGTTGAAAGAGATTG}$
	151051	${\tt TCCTAAATGTAATCAACCGTTGGTATATCGTTACACCAAAAGAGGTAATG}$
20	151101	${\tt AGAAGTTTGTTGGTTGTAGTGATTTTCCTAAGTGTAAATACAGTGAGTTT}$
	151151	${\tt AGTAATCCTAAACCAAAACTAACCTTGGAAACACTTGATGAATTGTGTCC}$
	151201	$\tt TGAGTGTAACAATAAACTGGTTAAGAGGAGAACTAAATTTAACGCTAAAA$
	151251	${\tt AGACCTTTATAGGTTGCAGTAATTTCCCTAACTGCCGTTTTATCAAAAAG}$
25	151301	${\tt GATAATGCTGCTGAATTAAACAATAACAGCGTTCTTATTGTTGCGTTTG}$
	151351	${\tt TAATTGTTTCTTATTCTTTCTAATAATTGTTGGGTTTGCTTTAAATTTA}$
	151401	${\tt GCAATTGCTTTTTCACTCCATTTAAAGCAGAATAAAAATAACAAAAAATA}$
30	151451	${\tt CATCTTAAATGACCAACAGATCCAGTTAAGATTAACTGAAAAACAAGCCC}$
	151501	${\tt AATTAACAACTTTACTTAACTTTTATCAACAAAAAATTGAAAGTGTAAAC}$
	151551	${\tt AGAGAAAAAGTTGGTTAGAAAGTCAGTTACAGGTAATTGATAAAAAGGA}$
	151601	${\tt TTTAAAGCAAGCGCAAAAGTTAACTTTACATTTAAAAAAAA$
35	151651	${\tt TAGCTCAACTTAATGAAAAAGCTGATTCAAAAAAAGTTGATCAGCCTTTA}$
	151701	${\tt GTTAATGAACTACAGAAAACCAAACTTTCCTATCTTGAAAGGTTAGTTAGTTGAAAGGTTAGTTGAAAGGTTAGTTAGAAGGTTAGTTAGAAAGGTTAGTTAGAAGGTTAGTTAGAAGGTTAGTTAGAAGA$
	151751	${\tt TCAAAAGATTAAACTCAGTGAAAATAATTTCAAAAGTGCTTTTCTTAAAA}$
4 0	151801	$\tt CGAAGGTAAAAGAGACAGCATTTAATATCTTTGCAGCTAAAAACAAGGTG$
40	151851	${\tt AACTGGGAGTATTTTAAACAGGTGTGTGATGCTGATTGCACTTTAAAAAA}$
	151901	${\tt CTTAGAAGATGAAGTGGAAATTACTTTTTCTAATTGGAGTTATTTGAGAA}$
	151951	$\tt GGATGCAAGCTCTATTAGCGTTTGAAAAACTAATTAGCAAAATCAAAACA$
4 5	152001	${\tt GTCAAAATTAATGAATTGGTTATTAATGAAACTTTAGATGAAGTGAAAAA}$
	152051	$\tt CGAAATTAGCCAAACTGCTTTTCAAGCGGGTGAAAAAATAGTTAAGGAAT$
50	152101	${\tt TTCAGATAACTAATTTAAACGAGCAAATTACCAGACTAATTGGCTTGCAA}$
	152151	${\tt AAATACTATTTGGCACTGATCAGCTCAATCTCTTAGAACTCGCGGTATT}$
	152201	${\tt AACAACCAAATTAGTAATTTTACTGAACAAAAGTTCAAACTAGATTTAG}$
	152251	${\tt ATTTAGAACTTCTTAAAGCAGCTAGCTTGTTTAACTATTTAAAGTGAGTA}$

	152301 GATAATAACCAGTTCTTTCAAATATTAAACACAAAACTTAACCAGCTTTT
5	152351 AATTAGTGATCAAGTTATTGCAATCATCCAACAACAAGAACTTAGTTTTT
	152401 ATCCTGATCAGTATGGGATGTTAATTAATGGAGTGAAAACAATGATTAGA
	152451 GAGCATAACACCATTGATTTTGAAAAACTGGTTTTTCTCAACTCAACAAA
	152501 ACTTATTGATAATTTTTATCTCTATGATTTAAATATGATCCATGCAGTTG
	152551 AATATAACAACTGCTTTTATTACTTTGTTAGTGTTAAACCCTTTGAGATT
10	152601 AAGTCATTAGCAGAACTTGATCTTTTTGTTGTTTTTTTTT
	152651 AGCTAAAAAGCAAAAGCAAAATCCAAAAGCGGTTAAACTGTTTATCACTA
	152701 CCAAAATTTTAGCGATCTAATTACATTAGATTTTATTAGAATTGTTTCAA
15	152751 CTAATAAATTGGCCTTATGGTAACAGAAATTAGAAGTCTTAAACAACTTG
	152801 AAGAGATCTTTTCAGCTAAGAAAAATGTTATTGTTGACTTTTGAGCAGCA
	152851 TGATGTGGTCCTTGTAAACTAACCAGCCCTGAGTTTCAAAAAGCAGCAGA
20	152901 TGAATTTAGTGATGCTCAGTTTGTTAAGGTTAATGTTGATGATCATACTG
20	152951 ATATAGCAGCAGCTTATAACATTACCTCTTTACCAACTATTGTTGTTTTT
	153001 GAAAACGGGGTTGAAAAAAAGAGAGCCATTGGCTTTATGCCAAAAACCAA
	153051 AATTATTGATCTTTTCAATAACTAAAGTCCATGATTGATCTGCTTGGTTT
25	153101 GGATCTGGATGGAACGTTATTATCTAAAACTAAAAAATTAACAATCCAT
	153151 CAAAATTAGCATTAACTAATTTAATTGCTAAAAAACCAAGTTTAAAGGTG
	153201 ATGATTTTAACTGGTAGATCAGTTTTTTCTACTCTAAAACACGTTGAAAA
00	153251 GCTGAACAGTTTGTTTAAAAAACCAATTGTTGATTATTTTTGTTGTTATG
30	153301 GGGGTGCTAAACTTTATCAAATTGAAGCAAATAAGCCACAAGAAAGA
	153351 AAGTTTTGCTTGGAAAACAGTGTTGTTGAAACTACCTTTAGTATTATCAA
	153401 AAAACACCGCGGATTATGTTTAGCTTACTTAGATAGTTATGTCTCTCCTT
35	153451 ACCTTTGTTTAGCTGGTAACAAGCTCCTTGGGTGGTTCACTAAATACTTT
	153501 TGGTATAGAAAAAGGTGTGTTTTTTTAACCAGAACCATTTAAAACAAGG
	153551 TATTCTAAAGATTAGTGTTTACTTTTTAAGTGCAAAAAGGTGTAAAAAAG
	153601 TTTATGAAATCTTAAAAAATACCTTTCAAGAAAAGGTTAATGTTTTAAGT
40	153651 TTTTCTAATAATTTAATTGAGATAACTCATCATGATGCTAATAAGGGTTA
	153701 TGCAATTGAATATATGGCCAAAAGAGAACAACTTTCACTTAATAGAATAG
	153751 CAGTTATTGGTGATTCTTGAAATGATTATGCAATGTTCAAAAAAGCTAAA
4 5	153801 TATTCCTTTGCAATGTCAAAATCCCCTTCCCAGTTAAAATTAATT
	153851 CAATACCAGTAACAAAACCAACCGTTACCGCTTTAGTACCTTACTTA
	153901 TAATTAGTGAAACAATCATTAATCAAAAAGCTGATTAGATGTTAAACCAA
50	153951 ATGCTTTATAAAACATTTTTAATGTTTCATCAGCAACTTTTTTAGCTTGG
	154001 TTTTTACCATCATTTAGGACTTTTAATACCATTTCATCAGTAATTTGTGC
	154051 TTTTTTAAATTTAAGTGATTCTATGACATTAATAACAGCACTACTGAGGT

	154101	CATTOTICAL
5	154151	${\tt GAGCCGATTTTTTACTTAAATTATGGTTAACTTCTTCTTTTAAAAGTGCC}$
	154201	${\tt AGTTAAAATAACAAGTAAATTAGTAACACCAGGTTGGGTTTTTTTAGCAAGTAAAATAACAAGTAAAATTAGCAAGTAAAATTAGCAAGTAAAATTAGCAAGTAAAATTAGCAAGTAAAAATTAGCAAGTAAAATTAGCAAGTAAAATTAGCAAGTTGGGTTTTTTTT$
	154251	AACGAATCTTATTAAAACTATCAGTTGTGGCTTTTGCGCACTTTTTTGATG
	154301	${\tt ATTGTTTCTTTACTATCATCCAGATAGATAACACCATTTTGATCAGGATTCAGATTC$
10	154351	${\tt TGATTTGGACATCTTTTTAAAGGATTTGATAGATCCATGATCCTGTTGG}$
	154401	${\tt TATCTTTGTTTTCTATAAATACAGGTAATTTCAGTTTTAACTTAAATTTT}$
	154451	${\tt TTTGCTACACGTTTAGCTAAATCATTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTGCTTCTGGTTAATTCCAAGTGCTTGCT$
	154501	ATCATTACCAACTGGAACAATATCAGGTTGATAAAGCAAGATATCAGCAG
15	154551	CCATTAACACTGGGTAAGTTAACAAACCAGTTGGGATAGTAATGGTGTTA
	154601	${\tt TTACTATTTCTTTTTTGCGCTAATTTCTTTGTTTTAAATTGGGTCATTCTTTGTTTTAAATTGGGTCATTCTTTTTTTT$
	154651	${\tt TTGTAATTCACCTAGATTACTTTGTGTCAGCATTAGATAACCTAACATGG}$
20	154701	TATGTTCCATCAGATCACTTTGTAAAAATAAGTTCACTTTTCCATAATCA
	154751	AGTCCTAGTGCTAATAAAGTTTTAACAAGTTGCAAGTTGTTATCTTTGAG
	154801	CATTGTTGGTTCAAAATCAACAGTAATAGCATGAAGATCAGCAACAAATA
	154851	AAAACAGTTGGTATTGACTTTGGAGTTGTTTTAAACCTTGCATTACGCCA
25	154901	AGAAAGTTACCTAGGTGTTGTCTTCCAGAAGCTTGAATCCCTGTAATTGC
	154951	GCGCTTTATCATTATTAGAATTGATAGGGTAATTAAAGGTTATTTTAATG
	155001	AAAAAAGCGGGTAAAAAAAAATAGTGATGCAGGTAAGACTTTTATCTTAAT
30	155051	CTCATCATCCTGTTCATCCTGTCAGAAAGCCATTGAGTTTTTTGATCAAA
	155101	ACAAAATTAGCTATGTTGTTGAGAATTTTTATAAAAAACCAATTAGTGAT
	155151	AAGCGTTTTAAAGATATTTTAAGTCTTAGTGAGGATGGTACTGAAAGTTT
	155201	GTTTTCCAAACGTGCTGATCAGATTAAAGCaACTAACAGTGTTAGTGTTG
35	155251	AAGAGTTGAGTATCAGTGAATTAATTAAGCTAGTTAGAGAACGTCCTTCT
	155301	TTACTAAGAAGGCCTATTATCATCCAATATAATTCTTCAGGAATTCCTAA
	155351	AAGGATGCGAATTGGTTATAACTCATCTGAAATTAAGGTCTTTGAGCGTA
4 0	155401	AACTAATAGAACCAAAGCCTATAATACAACAATAACATCTAAATGAAATA
70	155451	CAAAATTTTTGCTTCCACAACGCCCCAAACTGAACCTGTTCTCAATAAGT
	155501	TAAGAGCAGTTTTAAAAACTTGGCAAGCGGTTGAGAATGGTTATGAATAT
4 5	155551	GTGTTTGTTTTAGGTGGGGATGGTTTTTTTGTTTCCACACTTGCTAACTA
	155601	TAACTGTGATAGTTGTAAGGTAGTTGGTATCAATACTGGCCACATTGGTT
	15 56 51	TTTACACTTCTTTTAATGGAGATGATCTTGATGAAAATTTCATTTCAAAA
	155701	CTAACTAGCTTTGAGTTTAAAAAGATTAATTTACTGGAAGTGAAAACTAA
50	155751	AAACCACAGTTTCTTAGTTTTAAATGAACTTGCAGTTTACACCAACACTG
50	155801	CATATCCAATTAACATCTTTATTGATGATAACCACTGGGAATCATACCGC
	155851	${\tt GGTTCAGGGTTGCTAATTGGCCCAAGAACAGGTTCAACTGCCCTAGCAAAAAAAA$

	155901 ATCTGCTAAGGGAGCGGTTATCTTTCCAAATGTTGATGTTGTTCAAATTA
5	155951 TTGAACTAAACCCCTTATTACATCCCAACCAAATCACAATTCAATCTCCG
	156001 ATTATTCTGCCAATGCAAACCAAGGTTGAATTTAGGATCAAAAAAGCTTT
	156051 TAAAGCAGAGCAATTTCCCAATTTTTATGCAGATGGAATCAAGCTTGATT
	156101 TAAAAAATGAAGATACCAGTATTAGCTTTCAGTTGGTTTTATCAAGATCA
10	156151 ATGTTTCACGCTTCTTTAAAAACTAAGGATTTTATTGATAAACTAAAATC
10	156201 AACTTTTATTAAGCAAAGCTAATGAAATGGTTGTTGTGATTGGGTTATAT
	156251 TTTTAGTTTTGGTTTACTCTATCTTTGGATAGTAAAAAAATCAAAACAAA
	156301 TTGCTCAACAACCTAACACAAAACTGGTTGAATCAACTTCTATTCCTTTT
15	156351 AAAGTTAAGGACTTTGTTAGTGCTTGTGGTGGTAAGGAAAATTTTGTTAA
	156401 TATAAAAACAACACCAACTCAATTAATAGTTACTTTTAAAGATGTTAACT
	156451 CAGTGAGCTTAACAAAGCTTAATGCGCTTAATATCAAAGGAATTAACAAA
20	156501 AACCAAAACCAATTTCGTTTTGTACTTGGTAACTTTGTAAATGAATTGAA
20	156551 AAAAAAGATAGAAGATGAACAATAACATTACTAACAGTATTGCCCAATTG
	156601 TTTTTCAACACTTCTTTCTTTGCTTTTCTGTTTTTAATCATTATTGCGTT
	156651 TAATTTATGCTTGTTTGCCTATCTTTATTTTCAGTACCGAATTTATAAGA
25	156701 AAAACCCTAAAAAAGCTAACAACTTTAAAGCGAATGAATATGAAAAAATT
	156751 AAGCTATTAAAAAACCAAAATTTCACTGAAAGTAATAAATTAATT
	156801 AACTAATGAGTTAAATGAACTTACTAGTCAGCTAGATAATATCTTGGTTA
30	156851 GGATTATCAACAAACCACTAGCAAAGTTAGTTAATGATTTTTTAGATGAA
	156901 CAGATTAAACAGATAGTTAAGCTAGATAAAAACAGTTCTGATTTTCACTC
	156951 AGAAAGTGATAACCTCCCTTTTTATACCAAACTCTTTAATGATTTTCACT
	157001 TTGGTGTTGATAAATTAATAAACATTAACATAAAAAAACCCTCTTTATAAC
35	157051 TGGGTTTATAGCCCCAGTTTTTTAATTAGTGAAAGTGATTTTCGCAAGCT
	157101 TAATGGTATTAGTGGTATCAATAAAAAGCTTTTGGTTGAAAAACTTAGAA
	157151 TTGAAGACATTGTGTTTACAGATCTAAACAAAAAGTATGAAGTTAATGTC
40	157201 TTGACAGAAAGTCCTATTAAAGCACAAAAAACAGTGTTAACTGTGCGCAA
	157251 TATCCTGATGAACGATTATGTTGATAATGAAAGGATTGAATCATATGTCC
	157301 AACAAGCTAACTTCTTTTTTACTGAGCACTGTAAAAAGATCGGTAAAGAG
45	157351 ATCTTAGAATCACTTAATATTTTTATCTCAAGTAGTTCACTACACCCGTCA
	157401 TTTTGGCTTTTTAGCATTTCGCTATTCATTTGGACAAAATGTCTTATCCC
	157451 ATAGCCTTGAAACTGCATTTTTAACTGCCCACTTAGCAGCTTTAATAGAA
50	157501 CTTGATAGTGAACTGAGTTTAAAGTGTGGATTGCTCCATGATATTGGTAA
	157551 ATCTAATGATGATAATGGTAAAGAGAGCCATACGATTACAGGCGCTAAAC
	157601 TCGCTGAGCAATTTCAACTACCTGATGACATTAAATACACAATTGCTAAC
	157651 CACCACAATAAACATATTGACAATACCTATTGTCGTTTAACACAAATTGC

	157701	${\tt TGATAAACTATCTGCTGCTAGAATTGGTGCTAGAAGTGATAGTTCGCTTC}$
5	157751	${\tt TTTTTAAACAACTAAAAGATGAGTTGAAAAAGATTGTTGATAAAACTATT}$
	157801	${\tt AATAATTTCATACAACGATCTTACTAGGTCAAAGTGGTAGAAGGTTAAT}$
	157851	${\tt GATTTGACTTGAAACTAAAAACCAAAATCAACTGTTAAGTAATGAGCAAA}$
	157901	${\tt TTATTGAAATGGTTGAAAAGATTAAAGCTGAAATTGCTAAGAATCCAATT}$
10	157951	${\tt ACAAATCACTTCCCTATTAAAGTTGTAATTAGATATAACTTTGAACACAG}$
	158001	${\tt TTTTAACACCAAAAGCTAAGGATGCAATACAGTGCTTTAATACCACTTTT}$
	158051	${\tt TATATTACTAATTAGCTTAGTATTATTTTGTTTCAGCTTTAGAAAAAATC}$
	158101	${\tt AAAGTGAAAATCAGATAGTGAAAATCTTATTTTTTGCTTATTGCATCGAT}$
15	158151	${\tt TTTTAGCTTTAATTCTTGCTGTAATGTTGCTCACTTTTTTAAGTCATGG}$
	158201	${\tt GTTGTTAAGTTTAGCGATTTTAATCCCTGTCTTAGTTTTTCAATAATAAT}$
	158251	${\tt GTTTTTGTTATGGTTATTAGTCACTATCCCCTTATGAAAAGACTATTTG}$
20	158301	${\tt GAAATTAAAATTCTAAGTACCATGGAGTTGAAAACCCCTAACTTTAAGCT}$
20	158351	${\tt AATTGATGAAAAGATTGCTGAATTTAATAAGAGTAATGAAAACCTGATTG}$
	158401	${\tt TAAAACTACTTCAAAAAGAAAAGGAATTTGCCACAAACCAAGTTACTGTT}$
	158451	${\tt CAGTTTGATACTCAGTCAAAAAAGTCAGAAGAAGTGAAAAAACCTAGTAA}$
25	158501	${\tt AAAAATACTGAAAAGTTATCACTTTCTAACAGTAGTTATGGCAGTTAATT}$
	158551	${\tt TGCTAATAACTGTTGGTTTGATAGTTGGCTTAATTTTTGCTTTCAGATAT}$
	158601	${\tt TAGTTGGTAGTTTTCTTCTAAGGAACGTTTGTTGGTTTTATTGACATTAT}$
00	158651	${\tt AGCCAAACCCTTTACCAGTTTCATATTTGGGTACTATGTGTAAGTGAAAA}$
30	158701	${\tt TGAAAAACCACTTGACCTGCAATTGCCCCTTCATTAGAAACATAGTTTAA}$
	158751	${\tt ACCAGATGGTTTTAGTGTCATCTTTAGTTTTAAAGCGATTTGTTTTGCTA}$
	158801	${\tt ATAAACTAACTGCTTGTAACTCTTTTTGATCAGTTGAAGAAAAATCAACT}$
35	158851	${\tt GCATGTTTTTAGGGATTACTAAAGTATGACCATCAGCTACAGGAAAAGC}$
	158901	ATCTAAAAAAGCAATGGCATGCTCATTTTCTCCAATTTTATAGGATGTAA
	158951	${\tt TTGAACCTTGAACAATATCACAAAAGATACAACTACTTGTGGTGTTTTTT}$
40	159001	${\tt TCCATAGTAATGGTTATTTATAACAAAAAGCATTCATAAGATTAAAAACA}$
4 0	159051	${\tt TTGATGCAAAAATAGGGATTGATCAAAATCCAAACATAACTGTTATATTTA}$
	159101	${\tt GTTTGCGTAAAAAATCCATACACTGAATAGGAGTTTTCACCATTATCCCA}$
	159151	${\tt AACATTAAAAATGGAATAGTTTGGAGATAAAAAGCATAGATACTGGGAT}$
45	159201	${\tt AAATGCCTGCTTTTAAAAGAAAGGATTGCAAATTCCTTGGCGGTTTGATA}$
	159251	${\tt AATTTATAAGTTTTAAAAAGTAATCCAACATAAATAAAGTAAAACAACGG}$
	159301	${\tt ATGGATAACATGGAGTAATAGCTCTGAAAAAGCATTCCAGTCATTAATAA}$
	159351	${\tt AAGAACCATTAAAACTATATGGTAATTGCGTTGTTATAGTTGAAAACCAA}$
50	159401	${\tt CCCTGTACATCAGGTTCTATATTAACAATACCTGTGAAGCGTGATAAAGC}$
	159451	ATAAAAGTTAAAGAAAATAACTGTAAAAACTAGATAACCTGTAACACTTA

	159501 AAACCAGTGAACTGTTTTCAAATCATCTGCTTTTATGGTTAAGAAAGTAG
	159551 TATCATACTAAAAAGATTGCAAGGCTATTACTTTGGTAAGTAA
5	159601 AAAATTAGTAAACCAAATCAGGCTCATTTGACCACTGTTAGCAACACTAA
	159651 TCAGTGCAGTAATCACCATAAAGATTTGGGTGAATAGTGAAAAAGGTGCT
	159701 AGAAAATTAAATAATAATCGCATTTATTGTTAAGATAAAAGCAACGGTA
	159751 AAAAATTCCAATTGATTTTTTAAGCACGATTTTTATTTAATGATATATGA
10	159801 GTTTTAAAAAGATTGCTGAAATGATGCGTCAAGCAGAACGAGAAACTAAG
	159851 AAAAAAACATTAGCGTTTGAACAACAAGCCTTTGAATACAACTATAAAAA
	159901 TGGTGCGATTAAGATCACTATTTTAGGTGATCTTACACTTAAATCAATTA
15	159951 ACATCGATCCTGTTTTGATTGATGCAAGTGACAAAGTTATTCTAGAGGAG
	160001 ATGATTATAGAAGCTACTAATGAAGCGGTTAGTGATGTGAAAACCAAGTA
	160051 TGATAACTTAGTTGAGAAAACTATGCCAAAAGTTCCAGGTCTTTTCTAAT
	160101 TAGATTTTCTTTTTTAATAAAGATCTTATCCTTTTTCATTTCCATAAATG
20	160151 TAGGGATATTAGCAAAGAGTGTCATTAGTAAAATTGCAACATAACTTAAA
	160201 CTAAAGCCCACAATAAACACAAGTTGTGGATCACTATTGCTTAAGTTAAG
	160251 AAAGGTCGCCACATTTTTATATTCACCATTAGTTCAATCACTTGCTAAGA
25	160301 TACCAGTTGTATTACCTGTGATCTGGCCCTTAAACACAGATACCATCAAA
23	160351 GCTACATAACTAAAGTAAATTAGAGCAAACACATGGATATAGAAAAATGA
	160401 GATTAAAGAAAAACAGTTATCCCACAAGATAATTGCTAAGCTTACAAGTA
	160451 AACTGAGAAAATGCATCATGAAATAAATCTGGTTATTTCCTGTACCAACA
30	160501 AAGATGAAATTCACAATATCTTGTTCATTAACAGGTGTAAAAATTAGTTC
	160551 ACCAAAAAGGTAACCAAAGCTCCAAATAACCCAAAAACAGCTAACACCC
	160601 CACTAATCTTTTTTGCTTTAAAAAGACAAACACTGGCGCAATAACAGCA
35	160651 AAAAATGGACAAAGATCTAATAAAAATATCCTACTTAGTCGTAGTGAATC
00	160701 TAAATTTTGTGAAGATTGGGAATTTTGTCCATAAACATCAGGGAATAAAT
	160751 AAATAATCTGCCTACCAAAAAAAACATAGACAAACAGTACAATGGCTAGT
	160801 ACTTGAATTAGATAGAACCTAATCTTTAGTTTTCGAACTAAAGGAGTAAA
40	160851 AGCTAAAACAGAAATTACACCAGCAATAATAAGGATGATGACAAGGTAGT
	160901 TAAGTGTCTGCATTACTTATTGCTTAAAATTAAGATAAATAA
	160951 TTTTGTTTTCAATGAGTGATCGTTTAAATGATCAAGCCCAACATCGCTTG
45	161001 CAGAAACTTTTAAGGTTAAAACAAACTAATAATGACCCTTATTTAGTAAC
	161051 AAAAACTAGTCTAACCCATTCTTCAAAAAGCTTTCAAGTTGAATTTGAAA
	161101 AATGTTCAGAAGAAGAGTTGAAGAAAAAAGCAACTGTCTCACTAGCTGGA
50	161151 AGGATCATTGCTATTAGACAAACCTTTTTAATTATTCAAGATTTTGATGC
	161201 TCAAGTCCAACTTTACATCAATAAAAAAATCCATCCTAAGTTATTTGATT
	161251 ACTTTAATGAATTTGTTGATATTGGTGATCAAATTGTTGTTAGTGGTAAC

	161301	${\tt CCAATGTTAACTAAAACAAAGGTATTAACTTTAGCTGTTGAAGAGATGAA}$
5	161351	${\tt AATCATTGCTAAGTGTTTATTGGTTCCACCTGAAAAGTGACATGGACTTA}$
•	161401	$\tt CTGATATTGAAACCCGCGCTCGCAAGCGCTTTCTTGATCTTACCTATAAC$
	161451	${\tt TTAGCAATGCGTGATGTTTTTCTGAAACGCACTAAGATTATTAAATCAAT}$
	161501	${\tt CCGTAGCTTTCTTGATCAAAATGGTTTTATTGAAGTTGAAACCCCCACTT}$
10	161551	${\tt TACAAGCTGTTTTAGGAGGAGCTAATGCTAAACCCTTTAAAACCCATTAC}$
	161601	${\tt AATGCTTTAAAAGCGGATTTTTATCTCAGAATTGCTAATGAAATAGCATT}$
	161651	${\tt AAAAAAACTCATTATTGGTGGATTTAACAAGGTTTATGAAATGGGTAAAA}$
	161701	${\tt TGTTCCGTAATGAAGGGGTTGATACTACCCACAATCCTGAGTTTACCAGT}$
15	161751	${\tt ATTGAAATATATCAAGCTTATGCAGATTTTGAAGTCATGCTTGTTGTTGTTGTTGTGTTGTGTTGTGTGTTGTGTGTGTG$
	161801	${\tt TGAAAAGCTGATTCAATCACTTTGTGAAAGCTTAAACCAATTTAGCTTTA}$
	161851	ACTGAAATAACAAAACGATTAATCTAAAAAACACCATTTCATAAGATAACA
20	161901	${\tt ATGGTTGAACTTATTAAGAAAGTTACAGGGATCGATTTTAATTCAGTAAA}$
	161951	${\tt AGATGATCAATCTGCCATTTTATTAGCAGAAAAACATCATGTTAAACTAG}$
	162001	${\tt CAAAACACCAACAAAATAAGCAACACCATCATTAATTTGTTTTTTGAACAG}$
	162051	${\tt TTTTGTGAACAAACATTAATTGAACCTACCTTTGTAACCCATTATCCAAA}$
25	162101	${\tt AGCAGTTTCTCCTTTAGCAAAACAAGATCCTTCAAATCCTGAATTCACCC}$
	162151	${\tt AACGATTTGAACTTTTTATTAATGGTAAAGAGATTGCTAATGCTTACAGT}$
	162201	${\tt GAGCTAAACGATCCTTTAGAACAAAGAAAAAAGGTTTGAACAACAACTTGA}$
30	162251	${\tt AGAAAAACAGCTTGGTAATGATGAGACAAGTGAACTTGATGAATCGTTTT}$
	162301	${\tt TAGAAGCATTAAGTTTTGGGATGGTAAACACTGCTGGGCTTGGGATAGGT}$
	162351	${\tt ATTGATCGTTTGGTAATGTTGTTATGTGAATGTAATTCTATCCGTGATGT}$
	162401	${\tt TGTTTTCTTCCCCCAGTTGCGTGAACATAAATAGTTTTGATATTTTAATT}$
35	162451	${\tt GTTGGTGCTGGTATTAGTGGAATAGTACTAGCTAACATCTTAGCTAATCA}$
	162501	${\tt CAATAAAAGGGTTTTAATTGTTGAAAAAAGAGATCATATTGGTGGTAACT}$
	162551	${\tt GTTATGATAAAGTTGATAGTAAAACTCAACTCTTGTTTCACCAGTATGGA}$
40	162601	$\tt CCCCATATTTTCCATACTAACAACCAAACTGTTATTAACTTTATCTCACC$
	162651	$\tt CTTCTTTGAACTAAATAACTACCACCATCGGGTTGGTTTAAAATTGAAAA$
	162701	${\tt ATAACCTAGATTTAACCTTACCCTTTGATTTTCAACAGATCTATAAACTA}$
	162751	${\tt ATGGGAAAAGATGGTAGAAAACTCGTTAGTTTTTTAAAGAAAATTTCAG}$
4 5	162801	${\tt TTTAAATACTCATCTATCATTAGCAGAATTACAACTAATTGATAATCCTT}$
	162851	${\tt TAGCACAAAAACTCTATCAGTTTTTAATTAGTAATGTTTATAAACCATAC}$
	162901	${\tt AGTGTCAAAATGTGGGGTTTACCATTTGCAATGATTAATGAGAATGTTAT}$
50	162951	${\tt TAACAGGGTCAAGATAGTTTTAAGTGAACAAAGCAGTTATTTtCCTGATG}$
	163001	${\tt CAATTATCCAGGGATTACCTAAATCAGGTTATACAAACAGTTTTCTTAAG}$
	163051	ATGTTAGCCAATCCCTTAATTGATGTGCAGTTAAACTGCAAAGATAACCT

	163101 TTTAGTTTATCAAGATGAAAAACTGTTTTTTAACAATAACTTAATAGAAA
	163151 AACCAGTTGTTTACTGTGGCTTAATTGACAAGCTATTTAACTTTTGCTTT
	163201 GGTCATTTGCAATACCGTTCTCTTGCCTTTAGTTGAAAAAGATTTAACCA
	163251 AAAAAAATACCAAACCTACCCTGTTGTTAATATGCCTTTAGCTAAATCAA
	163301 TCACAAGGAGTGTGGAATACAAACAACTAACAAACCAAGGTTCTTTCAAA
0	163351 CCGCAAACCATCGTTAGTTTTGAAACCCCTGGCAGCTATGCAATTAACGA
V	163401 TCCTAGGTTTAATGAACCTTATTACCCAATTAACAATACACTAAATGATA
	163451 CTCTTTTTAAAAAGTACTGAAAAAAAGCAAGTAAGTTAAAGAATCTACAC
	163501 CTTTTGGGAAGATTAGCAACCTACCAATACATTGATATGGATAAAGCAAT
5	163551 CCTACTTAGTATTAAAAAAGCCCAACAACTGTTAAGTTAATGGAACAAAA
	163601 AAACATTAGAAATTTTTCTATTATTGCCCATATTGATCATGGTAAATCTA
	163651 CCTTATCAGACCGCTTGTTAGAACATAGTTTAGGCTTTGAAAAAAGACTA
20	163701 TTACAAGCGCAAATGCTTGATACTATGGAGATTGAAAGAGAAAGGGGTAT
.0	163751 TACCATTAAATTAAATGCTGTTGAATTGAAAATTAATGTTGATAACAACA
	163801 ACTATCTTTTCATTTAATTGACACCCCTGGGCATGTTGATTTTACTTAT
	163851 GAAGTGTCTCGTTCTTTAGCAGCTTGTGAGGGAGTTTTATTGTTAGTAGA
25	163901 TGCAACCCAAGGAATTCAAGCACAAACGATTTCCAATGCTTATCTTGCGT
	163951 TGGAAAATAACCTGGAAATTATCCCAGTTATTAACAAGATAGAT
	164001 AATGCTGATATTGAAACAACAAAAGATTCACTCCATAACTTATTAGGAGT
20	164051 TGAAAAGAACAGTATCTGTTTAGTATCTGCAAAAGCTAACTTAGGGATTG
30	164101 ATCAGTTAATTCAAACAATTATAGCTAAGATCCCCCCACCAAAAGGAGAA
	164151 ATTAATAGACCTTTAAAAGCATTACTCTTTGATAGTTACTATGATCCTTA
	164201 CAAGGGGGTTGTTTGTTTTATTAGGGTATTTGATGGTTGTT
35	164251 ATGATAAGGTTCGTTTTATTAAAAGTAATTCTGTTTACCAAATTGTGGAA
	164301 CTAGGGGTTAAAACCCCATTTTTTGAAAAAAGAGATCAATTGCAAGCAGG
	164351 AGATGTTGGTTTTCAGCAGGGATAAAAAAACTTCGTGATGTTGGGG
40	164401 TTGGTGATACTATTGTTAGTTTTGATGATCAATTTACAAAACCCCTAGCA
40	164451 GGTTATAAAAAGATCTTACCCATGATCTATTGTGGTTTATATCCAGTTGA
	164501 TAACAGTGATTATCAAAACCTCAAGTTAGCGATGGAAAAGATCATAATCA
	164551 GTGATGCAGCATTGGAATATGAATATGAAACATCCCAAGCGTTAGGTTTT
45	164601 GGGGTTAGGTGTGTTTTCTAGGTCTTTTACATATGGATGTTATTAAAGA
	164651 AAGATTGGAAAGAGAATACAACCTAAAACTCATCTCAGCTCCCCCTTCAG
	164701 TTGTATATAAGGTGTTGTTAACAAATGGTAAAGAGATTAGTATTGACAA
50	164751 CCCTCTTTGTTACCAGAACGCTCCAAGATTAAAGCAATCAGTGAACCAT
50	164801 TGTAAAAGTCTTTATTGATTTACCTGATCAATATTTGGGCAGTGTTATTC
	164851 ATTTATGCCAAAACTTCAGGGGTCAATATGAAAGTTTAAATGAGATTGA

	164901	ATCAACAGAAAAAGAATCIGITATCIGATGCCITTAGGGGAAATTATCIA
	164951	${\tt CAGTTTTTTGATAAGTTAAAGTCGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGAAGGGGTTATGCATCGTTAAGTGGATTAGTAAGGGGTTATGCATCGTTAAGTGAAGGGGTTATGCATCGTTAAGTAAG$
5	165001	ACTATGAGTTTTATAACTACCAACATAGTCAACTGGAAAAAGTTGAGATC
	165051	ATGTTAAACAAACAAAAGATTGATGCATTATCTTTTATCAGTCATAAAGA
	165101	CTTTGCTTTTAAGCGGGCAAAAAAGTTTTGCACTAAGCTCAAAGAATTGA
10	165151	TTCCCAAGCATCTGTTTGAGATCCCTATCCAAGCAACAATAGGGAGTAAA
	165201	GTAATAGCAAGAGAGACAATCAAAGCAGTTAGAAAGGATGTAATAGCTAA
	165251	ACTTTATGGAGGGGATGTTAGTAGAAAAAAAGAAGTTATTAGAGAAGCAAA
	165301	AAGAGGGTAAAAAACGCTTGAAAGCAGTTGGGAGTGTTCAATTACCCCAA
15	165351	GAGCTATTTAGTCATTTGCTGAAAGATGAAGATTAACATTTTTATAATTT
	165401	GTTATTCTTTTGTATTGGTTGATACTTTAACAAAGTATTCACAATAAAAT
	165451	TTCAACACTAATATAAACAATGATAAAGGATTTTAATCCTGGTGATTTTA
20	165501	TTGGTAAAAACCAACTAAAATCTATGCTTTTGGTGGTATCCAAGAAGTT
	165551	${\tt GGTAAAAACATGTATGGGATTGAATATGATGATGAAATCATCATTATTGAAAAAAAA$
	165601	$\tt CTGTGGCATTAAATTTGCTAGTGATGATCTACTTGGCATCAATGGGATTAGTGGGGATTAGTGGGATGAGGAG$
	165651	TCCCTAGTTTTGAACACTTAATTGAAAACCAAAGTAAGGTTAAAGCATTG
25	165701	TTTATTACCCATGGTCATGAAGACCATATTGGGGGTGTACCATACCTTTT
	165751	AAAGCAGGTTGATATTCCTGTTATCTACGCACCAAGGATCGCAGCATCAT
	165801	TAATCTTGAAAAAGGTTAATGAGCACAAGGATGCTAAGCTCAATAAGATA
30	165851	${\tt GTTACTTTGATGATTTTAGTGAGTTTCAAACCAAACACTTCAAAATTGAAACCAAACCAAACACTTCAAAATTGAAACCAAACCAAACACTTCAAAATTGAAACCAAACCAAACACTTCAAAATTGAAACCAAACCAAACACTTCAAAAATTGAAAATTGAAAACCAAAACACTTCAAAAATTGAAAATTGAAAACCAAAACACTTCAAAAATTGAAAATTGAAAACCAAAACACTTCAAAAATTGAAAATTGAAAACCAAAACACTTCAAAAATTGAAAATTGAAAACCAAAACACTTCAAAAATTGAAAAATTGAAAAACCAAAACACTTCAAAAATTGAAAAATTGAAAAATTGAAAAATTGAAAAATTGAAAAAA$
	165901	TTTTTACCGGGTAAACCACTCGATTCCCGATGCTTTTGGAATCTGTGTGC
	165951	AAACCCCTAATGGCAACATTGTTCAAAGCGGTGACTACCGGTTTGATTTT
	166001	GCTGCTGGGAGTGAGATGTTAGATGTTCATAAAGTAGTGAAAATTGCCGA
35	166051	GCGCAATGTCCATGTTTTTATGAGTGAATCTACTAATGCTGAAGTACCAG
	166101	GTTTTTCCCAAAGTGAAAAGTTAATTTACAGAAACATCCAAAAGATCTTA
	166151	AAAGAAGCAAGGGGTAGGGTTATTTTAACTACTTTTGCATCTAACATCAC
4 0	166201	ACGGATTAATGAAATTATTGAGATTGCTTTAAACAACAAACGCAAGATCT
40	166251	GTTTATTGGGTAAATCAATGGATGTTAATGTTAATATTTCACGCAAAATT
	166301	GGATTGATGGCAATTGATAGTAATGATATTGTGGAAGTTCGTGATATCAA
	166351	AAACTATCCTGATCGTAATATCTTAATCTTGTGCACTGGTTCACAAGGTC
4 5	166401	AGGAGGCTGCTTTAAACACAATGGCACGTGGTAAGCATAATTGGGT
	166451	AGCTTAAAATCAACTGACACCATTATTATGTCTTCAAATCCAATTCCAG
	166501	TAATTATGCTGCAGTTGAAAACTTGCTTAATGAACTCTCTAAGTTTGGTC
50	166551	TTGCTATTTATGAAAATTCATCCCAACTAAAACTACATGCCTCAGGTCAT
50	166601	GCCACTCAACAAGAGTTACAGTTGATGCTAAATTTAATGTTTCCTAAATA
	166651	CTTAATTCCTATCCATGGTGAATTTAAGATGATGCGAACCATAAAAAACA

		TTGCTAATGAATGTGGCATTAAAAGCGAGGATGTGGCGCTTTTAAGTAAT
		GGCCAAGTAATGTATTAATTGATGAAGAACTTTATTATTCCAATGAAAT
5		TATTAATGCTGAtCCTATTTATATAGAGAGTCATAACTCTTCTCCTGATC
		TTGCAAGAATAATTAAGCAAAGACAAATCCTTAGTCGTGATGGGATGTTT
		GCTGTTATTGTTGTTTTTGATAAGAATAATAACATCATTGGGATTCCAAC
_		CTTAATAACAAGGGGTTGTTTCTTTGCACTTGATTCCAATCCTTTAATGA
1	167001	CAAAGATAGCCCATTCTGTTAAAAGAACTTTAGAAAGTGTTATCCAAAGT
		AAGAAGTTTAATAGTCATGAACAACTAACAAAGGAATTGAAACGAGTTTG
		TAAGGAAACTGTTTCTTACTTTATCTGAAAAAATAAAAACCGTAATCCCT
1	167151	TAATTTCAACTGTGCTTTCCTGGATCTAATTCCCCCCAACCTCTATTTTCT
	167201	GTTACTAGTGCCAAAAGTGGTATTAGAGTACCACACCTGAATAACCAAG
	167251	TAGTCAAAGAGAGTTTGGAAGTGGAAGCAACCCAATCATCCTTCAACCCC
	167301	ACCCAAAGGTTGAAGAGTGGGAGTCCAATGAAGGATACAGGAAAGATGGG
2	0 1 67351	GGAGAAACTCAGTGAAACAACTGCTTCATCCATGAGTGGTATGGCTACAT
	167401	CCACTCGAGCCAAGGCCCTTAAGATAGAGGTGGAAAGGGGGAGTAATGTC
	167451	AATCAAGGCGAACTACAATCCAACGACTTTGCCAAAAAGCCGTTTAAAGA
2	167501	TGAGAGCAATAAGAAGTTGGATTCACAGAAGGAGTTTCCCCAAGGAAAGG
	167551	TTTGAAAACCGGTGTTGAGTACAGATGAGATAACAAGAGAGAG
	167601	GGGGCGACTTAGACTTTCTCCCCTGAATCGGCAATGGTAAACCCTTCTCC
	167651	AACTCCCCCTCCCCTTCAACTTCTGCTTCCTCAACCCCCCCTCCCCACTTT
٠	30 167701	TTCTAACATCAATGTTGGGGTTAAATCAATGATCACTCAACATTTAAATA
	167751	AAGAAAACACCCGGTGGGTGTTTATACCTAACTTTTCACCTGACATCTGA
		ACAGGAGCAGGTTATAGAAAAGCTAATAACAACAATAACGGCATTCCTTT
		TGAACAGGTGAAACCTAGCAATAGTAGTACCCCCTTTAATCCCACCTCAG
		CTGGTGGCTCCTCAGCCAAAAAAACAACCACCTATTCCTTTTTACCCAAT
		L TCCATCAGTCCCACCAGTGACTGGATCAACGCATTGACTTTCACTAATAA
	16800	L GAATAACCCGCAACGAAATCAACTGTTGTTAAGAGCACTGTTAGGAACTA
		1 TTCCGGTCTTGATCAATAAGAGTGGGGATAGTAATGATCAATTTAACAAG
	16810	1 GATAGTGAGCAGAAATGGGATAAAACGAATGAAAAAGATGGGAATTTACC
	16815	1 TGGGTTTGGGGAGGTGAATGGTGGTTTTTATAAGATTTTTACTTATTTAA
45	45 16820	1 TAGTTAAAAAAGTTTTGAATTTTTCTTAGTTTTTATTTGTTTAATATTT
		1 AAGAAAGTCTCAAATTTTTATCAGTTTATTGGTCAAAGAAGTCGCAAATT
		1 TTTCTTAGTTTTTTTTTTGCTTAATGGTTAAAAAAGCGTTAGTTTTTACC
		1 TTTATTTAATTAATAAAACATTAAACTTCGCCACCCCCATCACCGATTC
50		1 TAAAAGTGATCTGGTTAGTTTGGCACAACTTGATTCTTCCTATCAAATCT
	16845	1 CCGACCAAACCATCCATAACACCAACTTGTTTGTGTTGTTCAAGTCCAAG

	100301	GATGTGAAGCTTACATATAGTTCAAGTGGCTCAAATTAGCCAGATTAGTT
_	168551	TGATTCAACTAGTCAAGCTAACAAACCCGCCTACATCGTTGAATTTACTA
5	168601	ATTCCACCAACATTGGCATCAAGTGAAGGGTAGTGAAAAAAATATCAGET
	168651	GATGTACCGAATGTTTCAACAACCATGAACGAAGTTTTGCAAGAATTGAT
	168701	${\tt CCTAGAACAACCTTTGACTAAGTATACCTTAAACAGTAGTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACAGTAGTTTTGGCCAAACCTTAAACCTTTAAACCTTTAAACCTTTAAACCTTTAAACCAGTAGTTTTGGCCAAACCTTAAACCTTTAAACCTTTAAACCAGTAGTTTTGGCCAAACCTTAAACCTTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAAACAGTAGTTTTGGCCAAACCTTAAAACAGTAGTTTTGGCCAAACCTTAAAACAGTAGTTTTGGCCAAACCTTAAAACAGTAGTTTTGGCCAAACCTTAAAACAGTAGTTTTGGCCAAACCTTAAACCTTTAAAACAGTAGTTTTGGCCAAACCTTTAAAACAGTAGTTTTGGCCAAACCTTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTGGCCAAACCTTAAACCAGTAGTTTTAAACCAGTAGTTTTAAACCAGTAAACCAGTAGTTTTAAACAGTAGTTTTAAACAGTAGTTTAAACAGTAGTTTTAAAACAGTAGTTTAAAACAGTAGTTAAACAGTAGTTAAACAGTAGTTTAAAACAGTAGTAAACAGTAGTAGTTTAAAACAGTAGTAGTAGTAGTAGTAAACAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTA$
10	168751	${\tt AGAAGGGTAAGACAAGTAGCGGTACATCTGGGTAGTGGGCAAGCAA$
	168801	CAGTGAACCAGTCAACGCAACCATGACCTAAACAACCAATCCCAGTCC
	168851	CAATGCTTCAACTGGGTTTAAACTCACTACCGGCAATGCGTATAGAAAAT
	168901	${\tt TGGATCAATCCTGACCAATTTACCAACCAATTGATGGGACCAAGCAGGGGCCAAGCAGGGGCCAAGCAGGGGGGCCAAGCAAAGCAAGAAG$
15	168951	${\tt AAAGGGAAGGATAGTAGTGGGTGGAATAGTGAAGAAAACGAAGCTAAAACGAAGCTAAAACGAAGCTAAAAACGAAGCAAGC$
	169001	$\tt TGATGCGCCCTAAGTACAGGAGGGGGGGGTGCTTCTTCTGGAACATTTAATAGGAGGGGGGGG$
	169051	AATACCTCAACACCAAGCAAGCGTTAGAGAGCATCGGCATCTTGTTTGAT
20	169101	${\tt GGGGATGGAATGAGGAATGTGGTTACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCACCCAACTCTATTATGCTTCTACCAACCCAACTCTATTATGCTTCTACCAACCCAACTCTATTATGCTTCTACCAACCCAACTCTATTATGCTTCTACCAACCCAACTCTATTATGCTTCTACCAACCCAACTCTATTATGCTTCTACCAACCA$
	169151	${\tt CAAGCTAGCAGTCACCAACAACCACATTGTCGTGATGGGTAACAGCTTTCGTGATGGATG$
	169201	TACCCAGCTTGTGGTACTGGGTGGTGGAGCGGAGTGCACAGGAAAATGC
	169251	${\tt AGTAACAAACCCACCTGGTTTGCTAATACCAATTTAGACTGAGGGGAAGACCCACCTGGTTTGCTAATACCAATTTAGACTGAGGGGAAGACCAATTTAGACTGAGGGGAAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGACAATTTAGACTGAGAATTAGAATTAGACAATTAGA$
25	169301	CAAACAAAAACAATTTGTTGAGAACCAGTTGGGGTATAAGGAAACTACCA
	169351	GTACCAATTCCCACACTTCCATTCCAAATCTTTCACCCaACTTGCATAT
	169401	$\tt CTGATCAGTGGCATTGACAGTGTCAATGATCAAATCATCTTCAGTGGCTTGAGTGGCTTGAGTGGCTTGAGTGGCTTGAGTGGCTTGAGTGGGCTTGAGTGGGGGTTGAGTGGGGGGGG$
30	169451	${\tt TAAAGCGGGAGTGTGGGGTATGatagTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGT$
	169501	${\tt GTAGTAGTAGTAGTAGTAGTACCAAAGACCAAGCACTTGCTTG$
	169551	ACAACAACTAGCTTAGATAGTAAAACGGGGTATAAGGATCTAGTGACCAA
	169601	CGACACGGGATTAAATGGTCCAATCAATGGGAGTTTTTCAATCCAAGACA
35	169651	CCTTCTCATTCGTTGTTCCTTATTCGGGGAATCATAGTAATCAAATTTC
	169701	TCAGGAACCATTAAAACTGCTTATCCTGTGAAAAAAGATCAAAAATCAAC
	169751	TGTCAAGATCAATTCCTTGATCAACGCTACGCCGTTGAATAGTTATGGGC
4 0	169801	ATTTAAACATTAAATAAAGAGAATTCACCCAAATTATTTACTTATTTAT
	169851	AACTATTGTTACCCAATTTTTCTCTTTTTATTTGTTGTTTTTTACTAAT
	169901	TAAATAAGCAGTCTTTCtTACAAAAAAGaAAAATTCATATATAATCTTTC
	169951	CGCTGTTAACACCTTTGTTAACGCCAAAAATGTTCTTTCAAAACTGGATG
45	170001	CAATCTGTCAATTTTTCTGAGAGTTTGATCCTGGCTCAGGATTAACGCT
	170051	${\tt GGCGGCATGCCTAATACATGCAAGTCGATCGGAAGTAGCAATACTTTAGAGGGGGGGG$
	170101	${\tt GGCGAACGGGTGAGTAACACGTATCCAATCTACCTTATAATGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACGTATCCAATCTACCTTATAATGGGGGGATAACACACGTATCACACACA$
50	170151	CTAGTTGAAAACTAGCTAATACCGCATAAGAACTTTAGTTCGCATGAAT
	170201	TAAAGTTGAAAGGACCTGCAAGGGTTCGTTATTTGATGAGGGTGCGCCAT
	170251	ATCAGCTAGTTGGTAGGGTAATGGCCTACCAAGGCAATGACGTGTAGCTA

	170301 TGCTGAGAAGTAGAATAGCCACAATGGGACTGAGACACGGCCCATACTCC
	170351 TACGGGAGGCAGCAGTAGGGAATTTTTCACAATGAGCGAAAGCTTGATGG
	170401 AGCAATGCCGCGTGAACGATGAAGGTCTTTTTGATTGTAAAGTTCTTTTA
	170451 TTTGGGAAGAATGACTCTAGCAGGCAATGGCTGGAGTTTGACTGTACCAC
	170501 TTTGAATAAGTGACGACTAACTATGTGCCAGCAGTCGCGGTAATACATAG
0	170551 GTCGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCAAGC
-	170601 TGAAAAGTCTGGTGTTAAAGGCAGCTGCTTAACAGTTGTATGCATTGGAA
	170651 ACTATCAGTCTAGAGTGTGGTAGGGAGTTTTGGAATTTCATGTGGAGCGG
	170701 TGAAATGCGTAGATATATGAAGGAACACCAGTGGCGAAGGCGAAAACTTA
5	170751 GGCCATTACTGACGCTTAGGCTTGAAAGTGTGGGGAGCAAATAGGATTAG
	170801 ATACCCTAGTAGTCCACACCGTAAACGATAGATACTAGCTGTCGGAGCGA
	170851 TCCCTTCGGTAGTGAAGTTAACACATTAAGTATCTCGCCTGGGTAGTACA
20	170901 TTCGCAAGAATGAAACTCAAACGGAATTGACGGGGACCCGCACAAGTGGT
20	170951 GGAGCATGTTGCTTAATTCGACGGTACACGAAAAACCTTACCTAGACTTG
	171001 ACATCCTTGGCAAAGTTATGGAAACATAATGGAGGTTAACCGAGTGACAG
	171051 GTGGTGCATGGTTGTCGTCAGCTCGTGTGAGATGTTGGGTTAAGTCC
25	171101 CGCAACGAGCGCAACCCTTATCGTTAGTTACATTGTTTAACGAGACTGCT
	171151 AATGTAAATTGGAGGAAGGAAGGGATGACGTCAAATCATCATGCCCCTTA
	171201 TGTCTAGGGCTGCAAACGTGCTACAATGGCCAATACAAACAGTAGCCAAC
	171251 TTGTAAAAGTGAGCAAATCTGAAAAGTTGGTCTCAGTTCGGATTGAGGGC
30	171301 TGCAATTCGTCCTCATGAAGCTGGAATCACTAGTAATCGCGAATCAGCTA
	171351 TGTCGCGGTGAATACGTTCTCGGGTCTTGTACACACCGCCCGTCAAACTA
	171401 TGAAAGCTGGTAATATTTAAAAACGTGTTGCTAACCTTTATTGGAAGCGC
35	171451 ATGTCAAGGATAGCACCGGTGATTGGAGTTAAGTCGTAACAAGGTACCCC
	171501 TACGAGAACGTGGGGGTGGATCACCTCCTTTCAAATGGAGTTTTTATTTT
	171551 TTATTTATCTTAAACACCCATTAATTTTTTCGGTGTTAAAACCCCAAATCA
	171601 ATGTTTGGTCTCACAACTAACACATTTGGTCAGTTTGTATCCAGTTCTGA
40	171651 AAGAATGTTTTTGAACAGTTCTTTCAAAACTGAAAACGACAATCTTTCTA
	171701 GTTCCAAAATAAATACCAAAGGATCAATACAATAAGTTACTAAGGGCTT
	171751 ATGGTGGATGCCTTGGCACTAAAAGGCGATGAAGGACGTGTTAACCTGCG
45	171801 ATAAGCTTCGGGGAGGTGGTAAAAACCTGAGATCCGGAGGTGTCCGAATG
	171851 GAGCAATCTGGTAGCTTGCAAAAGTTACCATTAATTAATGAATTCATAGT
	171901 TAATTAAAGCGATACGTGGTGAAGTGAAACATCTCAGTAACCACAGGAAA
	171951 AGAAAACGAATGTGATTCCGTGTGTAGTGGCGAGCGAAAGCGGAACAGGC
50	172001 CAAACCTATCTGAGGATAGGGGTTGTAGGGCTTGCATTATGGAAGTTAA
	172051 AGGATAGAAGAAGCTGTTGGAAAGCAGCGCCAAAGAGGGTGATAGCCCCC

	172101	${\tt TATTTGAAATCTTTTAATACCTAGCAAGAAACCTGAGTAGCTCGAAAAA}$
	172151	${\tt CGTTATTTTGAGTGAATCTGCCCAGACCATTGGGTAAGCCTAAATACTAA}$
5	172201	${\tt TTAGTGACCGATAGCGAAACAGTACCGTGAGGGAAAGGTGAAAAGAACCC}$
	172251	${\tt AGAGATGGGAGTGAAATAGATTCTGAAACCATATGCCTACAACGTGTCAG}$
	172301	${\tt AGCACATTAATGTGTGATGGCGTGCGTTTTGAAGTATGAGCCGGCGAGTT}$
10	172351	${\tt ATGATAGCAAGCGTTAGTTAACCAGGAGATGGGGAGCTGTAGCGAAAGCG}$
	172401	${\tt AGTTTTAAGAGAGCGTTTGTTTTTTTATCATAGACCCGAAACGGGTTGAGC}$
	172451	${\tt TAGTCATGAGCAGGTTGAAGGTTGAGTAACATTAACTGGAGGACCGAACC}$
	172501	${\tt GACTCTCGTTGAAACGATAGCGGATGACTTGTGATTAGGGGTGAAATTCC}$
15	172551	${\tt AATCGAAATCCGTGATAGCTGGTTCTCGTCGAAATAGCTTTAAGGCTAGC}$
	172601	${\tt GTAAGATCACAAATAAGTGGAGGTAAAGCTACTGAATGTATGATGGCGCC}$
	172651	${\tt ACCTAGGCGTACTGAATACAATTAAACTCTGAATGCCATTTATTT$
20	172701	${\tt TTGCAGTCAGACAGTGGGGGATAAGCTTCATTGTCAAGAGGGGAAGAGCC}$
	172751	${\tt CAGATCATTAAATAAGGTCCCCAAAATATACTAAGTGGAAAAGGATGTGA}$
	172801	${\tt AAGTGCTAAAACAGCAAGGATGTTGGCTTAGAAGCAGCCATCGTTTAAAG}$
	172851	${\tt AGTGCGTAACAGCTCACTTGTCGAGTGTTTTTGCGCCGAAGATGTAACGG}$
25	172901	${\tt GGCTAAGTATATCCGAATTTATGGATAAGATATTTTATCTTGTGGTA}$
	172951	${\tt GACGAGCGTTGTATTGGAGTTGAAGTCAAAGCGTGAGCATTGGTGGATCC}$
	173001	${\tt AATACAAGTGAGAATGCCGGCGTGAGTAACGCTTGGGAGTGAGAATCTCC}$
30	173051	${\tt CAAACCGATTGACTAAGGTTTCCTGGACCAGGGTCGTCCTTCCAGGGTTA}$
50	173101	$\tt GTCTGGACCTAAGCTGAGGCTGAAGAGCGTAGGCGATGGACAACAGGTTA$
	173151	${\tt ATATTCCTGTACTTACAGTTAGACTGATGGAGTGACAAAGAAGGTTATCC}$
	173201	${\tt ACCCCCATTATTGGATTTGGGGATAAACCATAAGGTGGTACAATAGGCAA}$
35	173251	${\tt ATCCGTTGTGCATAACACTGAGTGGTGATCGAGTGAACGAGTGATCAA}$
	173301	${\tt GTAGCGAAGGTGGCAATTAATCATGCTTTCAAGAAAAGCTGCTAGGGCTA}$
	173351	${\tt ATTTAACTGTAACCAGTACCGAGAACGAACACGTAGTCAAGGAGAGGA}$
4 0	173401	${\tt TCCTAAGGTTAGCGAGTGAACTATAGCCAAGGAACTCTGCAAATTAACCC}$
- 0	173451	CGTAAGTTAGCGAGAAGGGGTGCTTATCTAAAAGTAAGCCGCAGTGAAGA
	173501	${\tt ACGAGGGGGGACTGTTTAACTAAAACACAACTCTATGCCAAACCGTAAgG}$
	173551	${\tt TGATGTATATGGGGTGACACCTGCCCAGTGCTGGAAGGTTAAAGAAGGAG}$
4 5	173601	${\tt GTTAGCAATTTATTGCAAAGCTTTTAACTGAAGCCCCAGTGAACGGCGGC}$
	173651	${\tt CGTAACTATAACGGTCCTAAGGTAGCGAAATTCCTAGTCGGGTAAATTCC}$
	173701	${\tt GTCCCGCTTGAATGGTGTAACCATCTTTTGACTGTCTCGGCTATAGACTC}$
5 0	173751	$\tt GGTGAAATCCAGGTACGGGTGAAGACACCCGTTAGGCGCAACGGGACGGA$
50	173801	${\tt AAGACCCCGTGAAGCTTTACTGTAGCTTAATATTGATCAAAACACCACCA}$
	173851	${\tt TGTAGAGAATAGGTAGGAGCAATTGATGCAAGTTCGCAAGGATTTGTTGA}$

	173901 TGTGAAATGTGGAATACTACCCTTGGTTATGTTTTGTTCTAATTGGTAAC
	173951 TGTGATCCAGTTTCAAGACAGTGTTAGGTGGGCAGTTTGACTGGGGCGGT
5	174001 CGCCTCCTAAAAGGTAACGGAGGCGCACAAAGGTACCTTCAGTACGGTTG
	174051 GAAATCGTATTTAGAGTGTAATGGTATAAGGGTGCTTGACTGTGAGACTT
	174101 ACAGGTCGAACAGGTGAGAAATCAGGTCATAGTGATCCGGTGGTTCAGTA
10	174151 TGGAATGGCCATCGCTCAACGGATAAAAGCTACTCCGGGGATAACAGGCT
10	174201 GATACTGCCCAAGAGTTCATATCGACGGCAGTGTTTGGCACCTCGATGTC
	174251 GACTCATCTCATCCTCGAGCTGAAGCAGGTTCGAAGGGTTCGGCTGTTCG
	174301 CCGATTAAAGAGATACGTGAGTTGGGTTCAAACCGTCGTGAGACAGGTTG
15	174351 GTCCCTATCTATTGTGCCCACAGGAAGATTGAAGAGCTTTGCTTCTAGTA
	174401 CGAGAGGACCGGAGCGAGCACCGCTTATGCTCCAGTTGTAGCGCCAGC
	174451 TGCACCGCTGGGTAGTAACGTGTCTATTAGATAAACGCTGAAAGCATCTA
	174501 AGTGTGAAACTATCTCAAAGATTAATCTTCCCATTTCTGTTAAAGGAAAG
20	174551 TAAGAGCCGTTATAGACCATGACGTTGATAGGTTACAGGTGTAAGCATAG
	174601 TGATATGTTGAGCTGAGTAATACTAATTGCTCGAGGACTTATTGGTTGAT
	174651 AAAAGGTATTTATCAACTAAAAGATTGTCGTTTTTGTTTG
25	174701 CGCTGTGGAAACACCTGGAACCATCCCGAACCCAGCAGTTAAGCACAGTG
	174751 GAGCTAAATGTAGGTAGTAATACTGAGAATAGGTAAGCACCAAGCAAAAA
	174801 TTAAGGACTATAGGTTTAAAAACCTATGGTCTTTTTTTATTTA
	174851 GTTTTTATAACTAATTTATCTAAAAAAATCGAACAACCTTTGACTAAGTA
30	174901 TACGCTCAATGGCAGTTTGGCCAAAGAGAAGGCCAAAAGCCAGATAGAGG
	174951 TGCATCTGGGTAGTGGGCAAGCAACTAATTGATCCACTCAACGCGCCACT
	175001 CCATTGGTCTGAATGACAATCCCAGCCCAAATGCTTCAACTGGGTTTAAA
35	175051 CTCACTACCGGCAACGCTTATAGAAAATTGGATCAATCCTGACCAATTTA
	175101 TCAACTAATTGATGGGACCAAGCAGGGCAAAGGGAAGGATAGTAATGGGT
	175151 GGAATAGTGAAGAAAATACGGCAGCAGGGGATGCGCCTCTTGTTTCAACA
	175201 AGTGGAGGTGGTTCTTCTGGAACATTTAATAAATACCTCAACACCAAACA
40	175251 AGCGTTAGAAAGGATCGGCATCTTGTTTGAAAGTAATGGAGAGGCGAGGA
	175301 ATGTGGTTAGCCTCCTTCCAACTCTACCAACCCAACAAGGTGAAGGCTTA
	175351 CCAAACCACTAACACCTACAACAGGTTAATTGAACCTGACAAGTGACAAT
45	175401 CAAGTAGTGATTTGAACAATATGACCAACTTGTTAAAACTCCTAACAACT
	175451 AAAAACATCAAAGCGAAATTGGGGAAGGACACCCAATCAAT
	175501 TAATGGAGGGGTGTTAGTCAAACCTTTTCCTTTGTTGTTCCTTATTCAA
	175551 TGAATCATACAAATACGGGAACTAGTGGAACCATTAAAACTGCTTATCCA
50	175601 GTGAAAAAAGATGAAGCTTCCCAAGTAGCGATCAATTCCTTGATCAACGC
	175651 TACGCCATTGAATAGTTAAAAACCTGATTTATTTTTATAGAAACAGTTAC

	175701	${\tt TTTGAAGATTCACTACTAATAATTTAAATTAAGCACTCATACTAATATAT}$
	175751	${\tt TAATCCCTTTAGATTGCTTAACTCTTTAAAACTTCCCTTTATAATCAAAT}$
5	175801	${\tt ATCGCCATGAACGACTGACAGTGACTGAAAAACAGACTTGTTAATTCCAA}$
	175851	${\tt AACCAAATCTGTTAGTTTCTGATTACCACAAACCTCAAGTAATATCATTG}$
	175901	${\tt ATATTGCTGAATTAATTAAGTGCTGTAGTGAGTTAAAAAACACTTCTATT}$
10	175951	${\tt AATGGTTTAATTGACTTTTTGAACCAACAGGATAAACTTGAATTTAACTT}$
	176001	${\tt AACAAGATTAAAGGAGATAGATGTTGAAGATGGTAAGCAACTATTTGGGA}$
	176051	${\tt TAGAAACTAGTGTTTATAAACACTTTCAAAATGAAATTGCTCGTTTTTAT}$
	176101	${\tt AAACAAGTAAACAAACACTTTCGTGAAACAGGTAGTGAAAGTTTGTTT$
15	176151	${\tt AGCTTTACCAGTTATTGAAGGGATTAATGAGTTTAACGATATCTTTCGAG}$
	176201	$\tt CTCCATTACTTTATGTTGGAGTTAAACTCAAAGTTTCCCCACGCTTTGAA$
	176251	${\tt CGTTTCTGATTAGAAATTAACAAAGAAGAAGATCTTTTTAAACCCTACTAT}$
20	176301	${\tt TATTGGAGTTGAAACCAACAAACGTAATAGTTTGTTTAAAAATAACTATG}$
	176351	${\tt ATACTACTAAGATGTTAATGATGCTTTAAAGGTATTTAGTGAACTT}$
	176401	${\tt GAATATGAGTTTAGAATGCCTTTAACTTCTGAATTGAAGAGTTTTAGTAA}$
	176451	${\tt AAAAGCAAAGAGTGATTTTAATACTGAAAAACGAACTAACT$
25	176501	${\tt ACAACGTTCTTTGGGGATCTTTGATGTTAAGGGTGATCAGCTGTTCCAA}$
	176551	${\tt AACTTTAATGAGATTCTAAACACTGATCCTGATGTATTAGATGAACTTCT}$
	176601	${\tt AAAAGATAGAAGAGATCTGTTGTTAGAAAACCGGGAATTCCGTGAACAAT}$
30	176651	${\tt TTGAT_TTAAAAGATACCTATCTTCTTCAGTCACCTTGATATCTACCAACAG}$
	176701	${\tt TATGCAGTTAAGCAAGCTTTACTTGGTGATTTAATTATTGAAGGCCCACC}$
	176751	${\tt TGGCACAGGGAAATCTGAAACAATTGTTAATATCTTAGTTAACCTTGTTT}$
	176801	${\tt TAAACAACAAAAAAGTATTGTTTGTTTCTGAAAAAGTAACTGCACTTGAT}$
35	176851	${\tt GTTGTTTACAACCGTCTTGGTAGTTTTAAACACATCGCACTTTTCAACGC}$
	176901	${\tt TAGTGTTGCTGAAAAGAAACGCTTTTATAACCAGTTTGCTGAGTTTG}$
	176951	AAACTTATTTCACTACTTACTTTTCCAAGAAAGATTTGGATGCTACTTTA
40	177001	${\tt CCAACATTTGAAGGTAAATGGGTGGATGATATTTTAGGGGCATTTCAAGC}$
40	177051	ATTACAAGCTCTTTATGACACCAAGATAAATTCTGGTGAAAATCTGTTTA
	177101	GTTTCAAAGAGATTGTCAGTAGCTTTCAGATGTTGGATGCTAGTTACATC
	177151	AAGATTAAAGAATATGAACGTTTTGATGAGTGAGTGCGCGTCTTTTCAAA
45	177201	TCCATTGTGATTAGAAAAACACTTAAGTTACCAAGAGTTGAAAAAAAGAAC
	177251	TTAGTCAGCGCTGGAATGGTATTGATAATTTCTATCAGTTGCAATCGCTT
	177301	$\tt CTAAACCAAAACGAAAAGGTCTTAAACTATGTGTTGGAACACTT$
50	177351	TGAACAGTTTAATACAGTTATCAGTCCTAAGCATGTTTTGTTCTACAAGC
JU	177401	CTAGCAATAAATCACAATTGCTCTTAAAACAACTGAAACAGGATGTTGAA
	177451	${\tt CAATACACTAGTTTACAACGTTTCCAATCTCCTACTAAGTTTGAAACAAT}$

		177501	CAAGTTGAATTTCATCAACCAAGTTAATGAAAACCCAACCCCATGGTTCT
5		177551	TTTCTTGATTTATCCAATTTCATGCCAAGCCACTGTTGGAAAAACTCGTT
		177601	AGTTTTGAGTCAAACATTATTAAAACAAAACAAGCTTATCTTAATGGGAT
		177651	TGAAAGCTATGTAGCAAGTTGTAAGAAACTGCTTAAAACAACTATTTTAA
		177701	ACAACTTTTTTCAGCTTTATCAAACTAATAAAGATGAACTATTGGAGATC
1	0	177751	TGCAGACAAGCAAAAAACCCAGTTTTAAAAGAGATTACTTGGTGGTTTAA
ĺ	•	177801	AAAACATTTTGAACTCTTAAAAAAACTCTTTCCAGTGCACATTATGACCC
			TTGAGTCTGCAGCAACTCTAACCCCTAACCAACGTGGTTTGTATGACTAT
		177901	GTGGTTATTGATGAAGCTAGTCAAGTATTTCTAGAAAGAGCAATTCCTAT
1	15	177951	CTTATTTAGAGCTGATAAGTACATTATTGCAGGGGACACTAAACAGTTAA
		178001	AACCAGCTAACTTCTTCCAATCACGTGCTGAGTATGATGTTGATGAGGAG
		178051	TTTGAAGATGGCAATATAGAAGCTGCTGTTCACTCCAGTTCTCTACTTCA
	20	178101	TTTTTTAAAGAACCGTTCAAGAATCTTAACTTTACTTAAGTTCCACTACC
•		178151	GCAGTGATTCAGCTGATCTGATTGCTTTTACTAATAACAGGATCTATGAC
		178201	${\tt AATGAATTAATCTTTATGAATAAAGCTAATGCTGATCAAAGGGTTTTTAT}$
			${\tt TGTCCATGATGTAATAGATGGTATCTGAAAAAACAACCGGAATCTCCAAG}$
	25	178301	${\tt AAGCACGTGATGTTGTGCAACGCTTAGAACAACTAACAACCAATGAT}$
		178351	${\tt TACAAAAAGTCACTTGGTGTAATTTGTTTCAATAAAAACCAAGCAGATCT}$
		178401	AATTGAATATCTAATTGATAAACAAACAATCCATTACTTAACGAGTGAA
	20		GAGAAAGACAAAATGATGTTGGTGAATATGAAGGATTATTTGTGAAAAAC
	30		ATTGAAAATGTGCAGGGTGATGAAAGGGATATCATCATCTTTTAGG
			TTATGATCGTTCAGTAAATAGTTATGGTCCTATTAGTAAGCAAGGTGGAG
			AAAACAGACTAAATGTAGCGATAACTAGAGCTAAACAAAGAATAGAACTG
	35		TTTAAGACAAATAGAGGAGAAGACTACAATGGTTTAAGCTCCAGTTCCTT
			GGGTAGTAAACTGTTAGTTGAATATCTGCTTTATTGTGAAGCGATGGCTA
			AAAACCAGGGTGAGAAAATCACTTTTCAAGCGGTAAAAAAGAAAAGAAAACA
	4 0		AAAGCAAAGTATGAACTGGCAGTTGAAAATGATTTCTTCAACCAAC
	40		GGCAATTTTTGGTGGAGAGTTTGAGATTAAACGTAACGT
			CTTACTTTTCTCATTTGTCTTTTACTTTAATAATATCCCTTATCTTGCC
			ATTGACTTTAACATCCCCATTCCCACTTCAAGAAAACAAGTTATGGAAGG
	45		GATTTTATACCGTGAACAGTTTCTCAAAAAACGTCAATGGAACCTAATTA
			ACATCTGGATTGATGAGTGAAAATTAAACCCAATTGGGGTGATTTCTAAA
			ATCAGATCAAGTTTAGCAGTGCATCAAAACCAGCATGAAGAAATATAATT
	50		AGATGAAGATAACTTTCATTTCTGGACAAGAAGTGTCGTTAGGCACTTCT
50	50		TTTTTATTGTTTTCAAAAAAAATAGTTATGAATGAATTAAACCAACC
		179251	ACTTGCTATTATTAAAAATGTTGCTAAAACCAAAAACCTTTCTATAGAAG

	179301	${\tt AGGTGGTTTTTGTTTGAAAACAGCTTTAGAACAAGCCTATAAAAAAACAC}$
-	179351	${\tt CTTAACTTTGTTAATGTTGAAGTTAACATTAACTTTGATAAGGGGATTAT}$
5	179401	${\tt TAATGTTGAACAACTCTTTAATGTTGTTAGTGATGAAAATGAAGATTATG}$
	179451	${\tt ATGACTTTCTTGAAATCCCTTTACAAGCAGCTAACAAAATAAACAGTTCA}$
	179501	${\tt TTGCAATTAGGTGATGTTTGCGAAAACCAATCCCCTTAAAAAAACATTAG}$
10	179551	${\tt TAGTGATCTTATCAATAAGATGATTGCTATCTTTAACCAAAAGATTAGTG}$
	179601	${\tt AAACAAACTTTAAAGCAGTAATGAGTGAGTTTAGTAGTGAGGTTGGGGAA}$
	179651	${\tt GTGATTGAAGCGAAAGTTGAAGATATTGATACTAACAAAGAAGGTGGTTT}$
	179701	${\tt AAAGGGTTATATTATTAACCTTGAAACTACAAAGGGTTATATCTCCAAGC}$
15	179751	${\tt GGGAATTGTCAAAAGGGGAGCGCTTAGAGATAGGTAAAAAATACCTCTTT}$
	179801	${\tt GTTATCAAAGAAATCCAACGGCAAGCATCGTTATGACCAATTACTTTATC}$
	179851	${\tt AAGAAGTGATACCCGCTTACTACAGTTTTTGTTAACTTCAAATACTCCAG}$
20	179901	${\tt AAATTGAAAATGGTACGATTGTAATCAAAAAGATTGAACGTTCCCCAGGA}$
	179951	${\tt GTGAAATCAAAGATAGCAGTTATCTCCAATGATCCTGCAGTTGACCCAGT}$
	180001	${\tt TGCTGCTATCTTAGGACCTAAGGGTGAGAAGATTAGGGGGGATTAGTGAGG}$
	180051	${\tt AATTTAATGGTGAGATTATTGACATTGTCTTTTGGAATGAAGACAAGTTA}$
25	180101	${\tt AAGTTCTTAATTAATGCCATTTTACCTGCAGAAGTCATTGGTTATAACAT}$
	180151	${\tt CTTGCAGGATGATGAGCGTGATACTAGTATTGAAGTTGTTGTACCTGCAA}$
	180201	${\tt ACCAAATTGCTAATGTTTTTGGTTTTAAAGGTGTAAACATTAGGTTAATT}$
30	180251	${\tt AGTAATTTAACAGGTTGAAATAGTGTTGATGTTTACAGTGAAAAAGATGC}$
	180301	${\tt AAGTGAAGCCAACATTAAATTCACGAGGTTAAGCTTTGAACCTGAAGGGT}$
	180351	${\tt TGTTTGGCATCAAAAAAAAGAAGGGGAAAAGATCATTAGTAATGATGCTACT}$
	180401	${\tt GATAAAGTCTTTTACACCTCTAAAGACAATGTGATAGATGATGAGATTAT}$
35	180451	${\tt TGTTGATTTAGCTAAAGATCTAATGGTTGATAATAAACAAAAAAAA$
	180501	${\tt AGCAAGTTGCAAAGCAAGTTGTTGAAAAATCACAATTAGAAAAACAAGTT}$
	180551	${\tt ACTCCAAAAGAAAAAGAGAAAGTTCAACCAAAAGCTAAGGETCATTCTAA}$
40	180601	${\tt TAGCCATTCCAAAAAACCAGCTAAACCTAATCAGATTTTTCTATCACTG}$
	180651	${\tt TTGATGCTAGTGATAAGAATCTTAAAAAAGATCAAGTTGATAATAACCAA}$
	180701	${\tt ACAAACCCCCAAACAAAACAAACATTTGATGGCTTTGATGATCTTTAATG}$
	180751	${\tt CAACTAATAACAAGACTTTGTTTATTAACAAGAAAACATTTTGTTAAAAG}$
4 5	180801	${\tt AGAACTTTTACGTCTTGTAAAATTAGACAACCAACTTGAAATTGATCTTA}$
	180851	${\tt ATCAAAATCTCAAGGGCAGGGGTTATTATTTGAGTGTTTTTGGTTTAAAG}$
	180901	$\tt CTAGATAAAAAACACCTCAAAGCTGTAGTTGAAAAACACCTTAAGGTTAG$
50	180951	${\tt TTGTAATGATGCAAAGCTTACTGCAATGATTACCGCCTTACAACAATTAG}$
	181001	${\tt CACAAGATGAAAAAAAAAAAACAAAGTT}$
	181051	${\tt TGACGGTAGGATTAAAACCAGTGCCAAACACCAGTTACGTAATGTTAAAA}$

	181101 CCGGGGTTAAAGATGGTGTTTTTATCTATAAAGGTCCTTTAACTGTTAGT
	181151 GAGTTTGCAAGTAAAACTAATATCGCTGTTGCTAACATTATCAAACACTT
	181201 TTTTTTAAATGGTTTGGCACTAACAGTTAATTCAGTTTTAACAAATGAAC
	181251 AGTTAGCAGATGCATGTTTAACTTTGGGTTTGACTTTAAGATGGAAACT
	181301 GAAGTTACCCATGAAAATATTGTAGCTAACATCCAGTTTGAAGATAGTGA
0	181351 TGATTTATTGCAACCAAGACCACCTATTGTTACTATCATGGGTCATGTTG
U	181401 ACCATGGTAAAACTTCGCTTTTAGACACAATTAGAAAAACTAATGTAACT
	181451 GCTAAGGAGTTTGGCGGAATTACCCAAAAAATTGGTGCTTATCAGGTGAA
	181501 AAATCACCAAAATAAAACGATTACTTTTATTGATACTCCTGGGCATGAAG
15	181551 CATTTACTTTAATGCGTGCAAGGGGTGCAAAAGTAACTGATATTGTGGTG
	181601 TTGGTTGTGGCAGCGGATGATGGGATTAAAAAGCAAACAGAGGAAGCAAT
	181651 TAGCCATGCTAAGAGTGCTAACACTCCTATCATTGTTTTTATTAACAAGA
20	181701 TGGATAAACCAACTGCTAACCCTGATCTGGTGATCCAACAACTCAATAAG
20	181751 TTTGATTTAGTTCCTGAGGCTTGGGGTGGGAAAACTATCTTTGTAATGGG
	181801 TAGTGCTTTAACTGGTCAAGGGATTAATGAGTTGCTTGATAATATCTTGT
	181851 TGCTAGGGGAAGTGGAGGGTTATCAAGCTAACTATAATGCCCATTCATCT
25	181901 GGTTATGCAATTGAAGTACAAACTTCAAAGGGACTTGGCCCTATTGCCAA
	181951 TGTCATTGTAAAAAGGGGTACTTTAAAGTTAGGTGACATTGTGGTGTTAG
	182001 GGCCTGCATATGGAAGAGTTAGAACGATGCATGATGAAAATGGTAATAGC
30	182051 TTAAAACAAGCAACCCCTTCAAAACCTGTGCAGATCTCAGGGTTTGACAT
30	182101 TATGCCTGTTGCTGGGGAAAAGTTCATTGTTTTTGATGATGAGAAGGATG
	182151 CAAAGTTAATTGCTAACAAGTTTAAAGAACAAAAACAAAAACCTAAC
	182201 AACTTAACAGTTAATCAAACCTTAAAAGAACAGATTAAAAACAAGGAAAT
35	182251 TAAGATATTAAATTTGATCTTTAAAGCAGATAGTGATGGTTCATTGCAAG
	182301 CTATTAAACAAGCAGTTGAAAACATTAATGTTGCTAAGATCTCACTTAGT
	182351 ATCATCCATGCTGCAGTGGGGCAGATATCAGAGAGTGATATTATGCTAGC
40	182401 AAAAGCATCAGGGGCTTTATTGTTTAGTTTAAACTTAGGTTTGAGTCAAA
40	182451 CTGTAAAAAACATTGCTAGTTTACAAGGGGTAAAATTAGAAGTTCACTAC
	182501 CATATCCCTAAACTAGCAGAGGAGATTGAAAACATCTTAAAAGGTCAATT
	182551 AGATCCTGTTTATGAAGAGATTGAAATAGGTAAAGCGGAAGTTTTACAAC
45	182601 TCTGGTTCCACTCTAAAATCGGTAATATTGCAGGAACCATTGTTAAATCA
	182651 GGAAAGATAAAAAGAGGGAATTTATGTAAGTTATTCAGAGATAAAGAGAT
	182701 TATCTTTGAAGGCAGAATTGACTCTTTAAAAAAATGAAAAAACGCCTGTTA
50	182751 ATTTAATAGAAACAGGGAAGAATTGTGGGATAGTTATTAATGGTTGCAAT
50	182801 GATATTAAGATTGGTGATATCATTGTTGCTTATGAAAAGCAGATAGTTAA
	182851 AGATGGCAAGCTATAGAAAACAACGGATTGAAAATGATATCATCCGCTTA

	182901	${\tt ATTAATCGCACGATTATTAATGAGATCTATGATCCTGTTGTTAAGTTAGG}$
_	182951	${\tt TCATGTTAGCCATGTGAAGTTATCAGCTGATTTTTTCATGCAGTAGTTT}$
5	183001	${\tt ATCTTGATTGTTATGATCGTAGTCAGATTCAAACTGTAGTTAATGCTTTT}$
	183051	${\tt AAAAAGGCTCAGGGCGTTTTTAGTCAAATGTTAGCACAAAATTTGTACCT}$
	183101	${\tt AGCTAAAAGTGTAAAACTCCACTTTGTGAAGGATGATGCAATTGACAATG}$
10	183151	$\tt CTTTGAAAATAGAACAGATAATTAACTCTTTGAAAAACTAACAGCTTGAA$
	183201	${\tt GTAAAATTAATCCTAATGGACCCACAAAACAAGTCCCCAAAACCACAAGT}$
	183251	${\tt TAAATCAACTAGATTGGTTGTCAAAAAACAACCAGCAGGTGTTGTTTTTC}$
	183301	${\tt CCAAATTGAGTATTCCTGTTAATGATTTTGAAAAAACAGTTACTTTAACA}$
15	183351	${\tt AGAGCACAAAAAAAGGAAGCTAAACTTCTCAAAAAAGCCCAAAGGAAAGC}$
	183401	${\tt TAATAAGCTTAATAATAAACAAGATAGTACCTTTTCAATTCTGCTTCAG}$
	183451	${\tt GTGAGACTAATAACACCATTCTTCCTCCTGGTGTTAAAAATCAAGCTGAT}$
20	183501	${\tt AATAAAACTAACCGTTTTAGTAAATTTATTAGTTTTTCACTTCTTCAAA}$
	183551	${\tt AAACAACAACCAGATGAAATAACAGAAAGGTTAGTTGATGATCCTACTG}$
	183601	${\tt TTAAAAACCGTTTTAGTGCTTTTAATAAGAAGCTTATTTGAGTtCTAAAG}$
	183651	${\tt GATAAAAAACTAAGAGCAAGAGCGTGGAAGATTGTtGGTTATACCAATTT}$
25	183701	${\tt AGTTATTGTGGCATTTTTTGCTGGACTTTTAGCAGTGATGAATAAGTTCA}$
	183751	${\tt TCACCCTTTCCTCAGTTGAATATCCTGCTATTGCTTTACAACTCCCTATT}$
	183801	${\tt AACAATGCATTATGAGGGATTTCTATCTTTGTTATTAGCATTGTTACTTT}$
30	183851	${\tt ACCGTTTTGAACAATGTTTATCTTGTTTTTTAATGGGAGTAAAGGATGTGA}$
	183901	${\tt GAACTTCGCGTTCTATCCATTATTTTATCTGGATAGTGTTAATTATTAAT}$
	183951	${\tt GTAGTTTATTACTAGTTAGTTGCTTGTTGATGATTGCTGCTTATGCCCA}$
	184001	${\tt TCTTGATGGTTATAACATCTGAAGAAACTTAGAATCACTTAACCCTAATA}$
35	184051	${\tt ACTAATGAAATCACTCTTTATTGGTTATTTTGATGGATTACATCAAGGTC}$
	184101	${\tt ATCTATTTTAAAGCAGAACAGTAAGTTTGAACCAATGGTGTTATTAATT}$
	184151	${\tt GATAACCCACCTTTAAAACAAACCAACTGGCTTTATGATTTACAACAACG}$
4 0	184201	${\tt GGTTGCACAAATAAAAACTTACTTGAAAGCAACTGTAGAAGTATTTGATG}$
	184251	${\tt TTGCCAAACATAACATGAATGCACTTAGTTTTTTTGAACAACAGATTAAA}$
	184301	${\tt AGATTGAATTGTGAAAATTATTGTTGGTACAGATTGGCATTTTGGTAA}$
	184351	${\tt TGATCATAAGGATGGGATCTGGTTAAAGAAACTGTTTAAAAAATACTGTTA}$
4 5	184401	${\tt TTGTTAATAAAACAAACCTATCAAGTAGTGTTATCCGTAACTATCTAACT}$
	184451	${\tt AATAATGAACTTGAAAAAGCTAACCAACTTTTAGTGGAACCTTATTATAG}$
	184501	${\tt AGTGGGCACAGTAGTACATGGTTTAAAAAAAGGCAAGGTTGCTTGGTTTTC}$
50	184551	${\tt CAACTGCTAACATTGTTATGGATAACCACTTATTGACTTTAAATAAGGGG}$
50	184601	${\tt AGTTATAGTAAGAGTTTTATTAAATAACCAAACTTTTTATGGGATTGG}$
	184651	TTTTATTAGCCAAAAGGATCAGGATTTGGTGTGTGAAACCCATATCTTTA

	184701	ACTTTAATAATGAGATTTATGGTTCACTGGTCAAATTTACACTGTTAAAG
	184751	TTCATTAGAACAATTAGTAAGTTTTCCAGTCAAGCAGCTTTGCAAAAAGC
	184801	AATTCAAAGTGATGCTAACTTTGCTTTAAAGTGGTTGGAAAACCAAAATT
	184851	TAGATAAAATTTAAAATCATCCAAATATGGACAGTGCCCCCAGTGGTTTA
	184901	ACTTTAACTGTTATTATCCTTAGCATCATTCTGCTTGCTT
0		AGTTGTATCAGCTTATGAAACAGCAATCACTTCTTTAAcCCCTTACAGGT
	185001	GAAAGAACTATATCAAGACTAACAACAAGCAAGATAAACTATCAACTAAG
		ATAATAAACCACTTTCAAAACCACTATTCAAGTTGTTTAATTACTATCCT
		AATTACTAACAACATAGTGGCCATTATGGTTTCTAACATCCTTTTTTTAG
5		CACTAGAACAATTAAAAATGAGCTTTTATCAAGTGTTTTAAATTTG
		GTAGTTAGTGGGGTTTTAATCGTCTCTTTTTGTGAAATTCTACCCAAAAC
		TTTGGGCAGAATTAATGTGATTAGAACCCTGGTTCTATTTGCTTATTTGG
20		TTTATTTTTTTTTTTTTTTTTTGACCAATTACTAAGCTAACCAGTTTA
		ATTCTCAAAAAGTATGAAAACCCCTTACCTGTTTCAAGGAAAGATGTTTA
		TTATTTTATTGATGAAATTGAACAAAACGGTTTATTTTCCAAAGAAGATA
		GTTTACTGATTAAAAAAACCTTAATCTTTGACCAAGTACTAGTTAAAAAG
25		GTAATGATCAAGTGAAAAAAAGTGGCTTATTGTTATCTTAATGACAGTAT
		TAACTTGATTGCCAAGCAGTTTTTACAAAGGCAGTTTTCCAGAATGCCAG
		TAGTAGATAAAACTACTAATAAGATAGTTGGTTTTATCCATTTAAAGGAT
30		TTTTTTACAGCTAAAGAAGCAAACCCTAAGTCACTTGATTTAAACCAGTT
		GCTTTATCCAGTTGTTTTAGTTCAAGATTCCACCCCCATCAAACAAGCAC
		TAAGACAGATGCGTTTAAACAGAGCACATTTAGCAGTTGTTAATGATAAA
		CATGAAAAACAATAGGGATTGTTTCTATGGAGGATATTATTGAAGAGTT
35		GGTGGGTGAAATCTATGATGAACATGATGATATCCAACCGATCCAAGTAT
		TGGATGAAAATGTTTGACTTGTTTTACCTAATGTAAAAGCAGCCTACTTT
		TTTAATAAGTGAATTAAGCCAGATTTGGTAAAAATCAAAAAAATATTACTAT
40		. CCAGCATTATCTCGCTTCACTAGATAATGATAGTTTTGCTTGC
40		AGCTTGACACTCCCTTATTTAGTGTTGAAGTGATAGCTGATAGCGAAGAT
		L AAAACCAAAATTCTTTACGAAATTAGAAAGAAGAGAGTGATGTTATTGCTTA
		L GAGCATTATTTTAGAGTTGAAAACCAACAAAAATTGTAAAGCTTTACTT
45		L TTGTTATTAATCCCCTTACTAGTTGGTTTAACCTTGATAATCTATGGGAT
		L TGTCTTATTTTCCACTGAAGGGGTAATTGACCATGGTGATCATAACCACT
50		L TAAGAGCAAGGTTTCAACTCACTTTAGAGGAGATTATTGTTTTTTGTTGTT
		1 GGTAGTATTATCTTGTTTTTTACTTTAGCTAGCTTTTGTGTGAGTTGCTT
		1 TATGTTAATGAGAAGTCCTAAGCAAAAACAGCTAGAGGTTGATCATGCTA
	18645	1 ATAAAACTAATTTAAAACCAAAAGCAATAGTTAATTGTGATCTTTTTCAG

	186501	${\tt TTGGGTGATTACTGTGTGTTTACATTTAAAAAACTTAGCTTTAAACAACG}$
	186551	${\tt GTTTAAGCAAGATTTTTTTGCTAGAAGTAAGTTTTCGTTTCGCAGTGAAC}$
5	186601	${\tt TGTATCGTCTTTGTTTGGTGGGAGTGTTAATTGCTCTCAATTTAGCGTTA}$
	186651	${\tt AGTTTGATTGAAATTCCTGGGATAGTTTTACCTTGGGGTAGTTCGATCCA}$
	186701	${\tt ATTCCGTTTTTTAATACGGCTATCTTGTTTATTGCTGTTAGGTTGGTGG}$
10	186751	${\tt GATTATTATCTACTTCTTTAGTGGCTTTAATCACCCCCTGATTACACCTG}$
	186801	${\tt TTAATCCATCCTATTCACACCCCCATTAGTAGTTTGTTTTACATGGTTAA}$
	186851	${\tt TGACTTTTGGTGCTGTGGATCTTTTATTTCTTTTTTTCCATCTCTTTA}$
	186901	${\tt AAGCAGAGGTGAACCAAACTACTACTGTAGTTGACAACCAAACCTTTTAGT}$
15	186951	${\tt CAGTTAGTTAATACTAAAAAGACGAAGTGAACAAAGTTTTTTCCTTACT}$
	187001	${\tt TGTAATTAGCTTTTTGTGTGGCTTTATTGAGGGGTTAGGTTTTTACTTTG}$
	187051	${\tt GTTATTTTTAATCCTTGGTAATGTTTCTAGTTTAGGATTGAAGATCTAT}$
20	187101	${\tt TATGATGGGTTACAACAACGTGATCTGATTAACAGTAGTAATGTTTTGTT}$
	187151	$\tt CTTTTTAATGACAACAACTGCTATCTTCAGTATTAAATACATCTTTGAGA$
	187201	${\tt TGTTATTTTTTTTTTTTGTGTTGAAAAGAATGTAGTTAATATTGCTAACCAC}$
	187251	${\tt TTTGGTTTGTATTAATCTAAACTTTTTGCAACTAATTAAT$
25	187301	${\tt ATAATGAAGTATGTAAAAGTACAGATCATCAATAAATCAACTATTGAACT}$
	187351	${\tt GTTAGAGGATGCTAAAAAAGGGGAAAAAATTAATTTAGATTTAATTAA$
	187401	${\tt AAGTTGATCAGACCAACATCCTCAATACGATCACTACTAACCAAAAATTA}$
30	187451	${\tt GCATGAGAAAAGGAGTTAAGTGCTCAATTTATCAATCAGCAGAATGAGTT}$
	187501	${\tt AATTAAAAACTTTGAAATTGAGATCATTAAGTTAAAAACTATGCTTAATG}$
	187551	${\tt ACAAAGAGCAAGCATTGTTGTTAAAAACCAAATTAGAATTACAAAACCAG}$
	187601	${\tt TTTCAAAAGCAGATAGAGAACTATATCAATGAGATTAACAAGCTCAAGTT}$
35	187651	${\tt AACCAATAAAGAGCTTGAAATTACTAACCAAAAACAACTAGAAAGCTCAC}$
	187701	${\tt TTAAACTACAGCGAAACGAATTTGAAGAGAAAATCAACCAGCAAAACTTA}$
	187751	${\tt ACGATTGAAAAACTGAAAATTCAACAAGCAAGAAGTAGTATCTGAGCAGT}$
4 0	187801	TGCTAAAAAAGGGAATGAACTTGAAAAGTGGTGTGAAAACCAGTATGAGT
	187851	$\tt CTTATGCAGATAGCTTTGAAAACTGTCAGTTTACTAGGTATAAAACTGAA$
	187901	${\tt ATTAACTTATTAGATGAAAATGATTTTCCTAATGAAAAAGCAGATTACAT}$
	187951	$\tt CTTTAGTTTCTTTGGTGAAAAAACCAATAAAATTCCGTTTTTATCAATTT$
45	188001	${\tt GCTGTGAGATGAAAAGTGAGTTTAATGATAGTAAGCATAAATCAAAAAAC}$
	188051	${\tt AAAGATCATATTAGCAAACTGGTCAGGGATGCTAAACGTGCTAACTGCAA}$
	188101	$\tt GTATGCTTTTTAATTAGTGAACTTGAACTGGAGACTGAAAATGACATCC$
50	188151	${\tt AAGTGCGCTTAATGCCAACATTGGAAAGTGTTGAAGTCTATCTA$
50	188201	${\tt AGACCAATGTTTTTTTTTTTTTATCTTAATGCTTAAACTTTTCTATAAGTTAGCTAA}$
	188251	${\tt GAAGTTGTTTGCCCTTAACCGTTTTCAATCAGTTGAACTAATTGATAAAA}$

	188301	ATAAGTTAAATGAACAGTTTAAACAGTTGAAAGATAATTTTTTAACCAAA
		ACCTTTTTAGAGATTGAAAAAGTGTGTAAAAGTAACTTAGTTGATATTGA
5	188401	AACACTTGAAAAAGCAGTGGTGAAACTAAGGGTTAGAAACGAACG
	188451	TAGATCAGTTACTTAATAAATGAACTAAGAAAATTGATAGCTTTGATTTA
	188501	CAGTTAACTAAGAAAATTACTAATAACTACTAGGGTTTAATTTGTTAGCT
10	188551	TATTTAGAAAATTCAAAATAAGCAAATTATAATTAGGTGTCTTTCTT
	188601	CTAAAAATATGAAATTATACCGATCTTTAAAAGCAGCCCTGTTACCAGGG
	188651	ATATGCACTAGCATTTTACTTGCTAGTTGTGCTTCAACAAATACTTATCA
	188701	AGACCAAAGGAATGCCTTGATTAGTTTGGCTTCTAATCGTGATACTTTAA
15	188751	TTGCGAATGCTAAAAAATCCAAAGAAGAAGTGCAAAAAGAAGTTACCAAA
	188801	ATGAATAGTAGTACTTCATCAATGATGACAGCTACCCAAAGTGTTGCAAT
	188851	TACAACACATCAAACTACTGAAAAAACAAATAATTCTAAGTATGATCTAG
20		ACAAGCTTTTTAAGGATTACATCCTTTATGTTGTTGATAATTTTTCAGGA
	188951	CTTGTTTTTAAAAGAACTGGCGGTCATAGGATCCAGTTAATCGATAAGGA
	189001	TAAAGAGATTTTGGATGGTGGTAATCTAACTAAACATACCCACCACGATC
		ATAACCATATGCATAATCATGAACATGAACATGAAGAACACCATGATGAG
25	189101	GAAGAGACAGAAGTAGTTGGCAGAGCACTATCTTTTACTAATGGCATCTT
		TCTAGTGATTGACTATAAAAAAGACTCTGAAAGAAAAAATATGAGTGGTT
		CAACTACTATGATGCACCAACACCACCATGAAGCTGAAGAACATAAAGAG
30		GAACGTAAGCTCTCTTTAAACTTAAAAGCATACAAATTTAATACCCCTTT
		TAACATTAGTGAGTTTATTAGTGCTTGACATCATAAAGAATCTCATAATA
		GTGACACAGAGTTCAATAACCTTCACAATAAGTATGACAAGGAAGAATTG
		GATATTATTGACTATAACTTTGAAGAAAAAGCTGTTGATGAAACAATTGC
35		TTAACTAAAAAAGATAGTTATTAACTTAATTTAGAATTAACTAATGACAG
		TGTACACTTACACTGTTTTTTTTTTTATTTAATTGAGAAAATATTGGGTTGATG
		GAACAACAAAACCCTGATCGTTTAAAAAAAGATAGGGAACTTATTTAT
4 0		AATTGTTACAGCTAAAGGTATCATTAGCCGTTTCTTTTGATCAATCCTTA
		GTTTTTTAATTACTAACCTTATCTTCTTTTTTTGCAGCTTTTGTAGCGCTC
		TTAATTTATCTGTTAGCAAGTGTTGATAATCAGTTTGCATTTGTTTTTA
		TGCTGCAATTATCTTCATTATTTTTTACAACATCTTCTTTTTAAGTTACC
45		TGTTGTTTATCTATTTTAAGGGCCAGAAAGCAATTGAAAACAACTGTAAC
		TACCTGTTAACAATCCTTGATATTAAGAGTGATGAACTGTTACCTTTTTC
		GCTTTTAGGTAGTTTAAGAAAAGGTTATATGCTAGATGAAATGCTCTTA
50		AACAGTAAATATTTGCTACAATCATAACGCTTTAGTTTTTAGTTGATAC
		. CCAAAATCCGTAGTCAATTTATTAACTAACTAGTGAACTAGATTTTGATC
	190051	AATAGCGCTGTAAAATATCCTGAGCTGAAGATCAAACTTGAGTCTTATG

	190101	${\tt TAGCACCCTTTTAGATCTCACTATTAAAAAGATAGTTGAGGTTGTAAAGG}$
	190151	$\tt GTGTGAACATTAAGATTAAAGGTCCTTTACCTTTGCCTACTAAAAAGGAA$
5	190201	${\tt GTGATCACCATTATCCGCTCTCCCCATGTTGATAAAGCATCCAGAGAGCA}$
	190251	${\tt GTTTGAAAAAAATACCCACAAGCGCTTAATGATTCTTGTTGATGTTAATC}$
	190301	${\tt AAGGAGGGATTGATAGTTTAAAAAAGATTAAGATCCCAGTTGGGGTTACA}$
10	190351	${\tt CTGCGTTTTCAAAATAGGTTATGGATGTAAGGGGAATATTTGGTGTTAA}$
	190401	${\tt AGTAGGGATGAGTCAGATCTTTACTGAGCAAAATGAGTGCTTACCTATCA}$
	190451	${\tt CCATTGTTTATTGTGAAGCTAATCAGGTGGCTGGGA\r, TAAAACGATTGCT}$
	190501	${\tt AAAGATAATTACAACGCCACTCTATTAAGCTTTCAAACTGTTGATGAAAA}$
15	190551	${\tt ACAACTTAACAAACCTAAACAAGGGTTCTTTTCCAAACTTAAACTAGAAC}$
	190601	${\tt CTCATAAATATCTGAGGGAAATCAGAAAGATGCAAGGGTTTGAGTTAGGT}$
	190651	${\tt AAGAAGATCACCCCCAGGAGTTGTTTAAGATAGGTGAATATGTTGATGT}$
20	190701	${\tt CACTTCACTCACCAAAGGTAGGGGTTTTACAGGAGCGATTAAAAGGTGAA}$
	190751	${\tt ACTTTAAGATAGGTCCTTTGGGTCATGGGGCGGGTTATCCCCACCGCTTT}$
	190801	${\tt CAGGGTTCTGTGCAAGCAGGTAGAGGTGGTAGTAGTGCGCAGCGTGTTTT}$
	190851	${\tt TAAGGGTAAGAAGATGTCTGGGCATTATGGTCATGAACAAGTTACGATCC}$
25	190901	${\tt AAAACCTCTTTATTGTTGGCTTTGATGAAATCAATAAGTTAGTT$
	190951	${\tt TCAGGCGCAATTGCTGGTCCTGAGGGTGGGATTGTTTAATTAA$
	191001	${\tt AAAAAAGAAAACTGGCAAGATAAAAGATATAAAGTTAGCAGTACAAACTG}$
30	191051	${\tt TTAAAGCCCCACAACTAAAAGCACCAAAAAAGCAGAAAACTAAGGTTGAA}$
	191101	${\tt ACCAACCAGGTTAACCCAAAAATTGAAGAAGAGAAAACTAAGTAATGGCT}$
	191151	${\tt AAACTTAAAGTAATCCAGTTTGATGGTAGTTTTAAAGGTGAGATCCAACC}$
	191201	${\tt TGCTAACCACCTCCTTTTAAAAAAAGCAGTGATCCAACCAGTGTTTGATG}$
35	191251	$\tt CTATCTTATTAGAACAAGCAGCATGTAGACAAGGCACTCACT$
	191301	${\tt ACTAAGGGTGAAGTTAGTGGTGGGGGGTAAAAAACCATATAAACAAAAGCA}$
	191351	${\tt CACTGGTAAAGCTAGACAGGGTTCAATAAGAAACCCCCATTATGTGGGGG}$
4 0	191401	$\tt GTGGTGTTTTTGGTCCTAAACCCAACCGTAACTACAAACTAAAACTA$
	191451	${\tt AACAAAAGGCTTATCAACTTGCTTTAACTAGTGCCTTTGCACAAAAGCT}$
	191501	${\tt TAACAACCAAGTGATAGTTGCTGAAGCCAAGTTGTTTGAACAAACCA}$
	191551	${\tt ATGCCAAAACTAAAAAGATGCTGACGTTTCTCAAGAATGCCAAACTAACT$
45	191601	${\tt GAGCAAAAACTCTTGTTTGTGATTGATACTATCTCAAAACCACTGTTGTT}$
	191651	GAGTACTAACAACCTAAAGCAGATAGTAGTCAAACAGTTTAATAAAGTAT
	191701	CAGTAAGAGATCTACTTTTAGCTAAAACTATCATCATTGAAAAAGCTGCT
50	191751	${\tt TTTACAAAACTGGAGGAACGACTTAAATAGGCTATGGATGTAACCAACAT}$
	191801	${\tt ACTCTTAAAACCAGTCTTAACTGAAAAGAGTTATCTCAACCAGATGGGGG}$
	191851	${\tt AATTGAAAAAATATGTCTTTGCAATTAACCCTAAAGCTACTAAAACCAAA}$

	191901 GTAAAACTAGCGTTTGAAATTATCTATGGGGTTAAACCTTTAAAGATTAA
5	191951 CACGCTAATTAGAAAACCAGTGACCATTAGAAATGGCACTAAATACCCTG
	192001 GGTTTAGTAAGCTAGCAAAACTAGCAGTAATCACCTTACCTAAGGGAATG
	192051 GATATTGCCATTACTGGTGAGAAACAACCAAGAAAGAAACAAAGGATCA
	192101 ATAATGGCAATTAAAAAGATTATTAGTCGTTCTAACAGTGGGATTCACAA
10	192151 CGCCACTGTCATTGACTTTAAAAAACTCCTTACCAATTCCAAACCCGAAA
10	192201 AGTCGCTTTTAGTTACTTTAAAAAAACATGCAGGAAGAAACAACCAGGGC
	192251 AAGATCACTGTTCGCCACCACGGTGGGAGACATAAACGTAAGTACCGTTT
	192301 AATTGATTTTAAGCGTTACCACTATGACAATTTAAAAGCAACTGTTAAAT
15	192351 CGATTGAATATGATCCTAACCGCAGTTGTTTTATCTCCCTTTTACACTAT
	192401 CAGAATGGGGTTAAAACTTACATCATTAGECCTGATGGGATTAAGGTTGG
	192451 TGATCAAGTTTATTCATCTGATCATGCCATTGATATCAAACTAGGTTATT
20	192501 GTATGCCCCTTGCTTTTATCCCTGAAGGAACCCAAGTTCATAACATTGAA
	192551 CTTAACCCTAAGGGTGGGGGTAAGATAGCAAGAAGTGCTGGAAGTTATGC
	192601 GAGGATCTTGGGTCAAGATGAGACTGGTAAATACATCATTCTCCAGTTAA
	192651 TCTCAGGGGAAACTAGGAAGTTTTTAAAGGAGTGTAGAGCTACAGTTGGT
25	192701 GTTGTCTCTAACTTAGATCATAACCTTGTTGTAATTGGTAAAGCAGGGAG
	192751 AAGTCGTCATAAGGGAATCAGACCAACGGTTAGAGGTTCAGCAATGAACC
	192801 CTAATGACCACCCGCATGGGGGTGGGGAAGGGAAAGCCCAGTTGGCAGA
30	192851 GATGCACCAAGAACCCCTTGGGGCAAACGCCATATGGGTGTGAAAACACG
	192901 TAACATGAAAAAACATTCAACTAACCTGATTATTAGAAACAGAAAAGGAG
	192951 AACAATACTAATGTCAAGAAGTAGTAAAAAGGGCGCATTTGTTGATGCTC
	193001 ACCTCTTAAAAAAAGTGATTGAAATGAACAAACAAGCCAAGAAAAAAACCA
35	193051 ATTAAGACTTGGTCAAGAAGAAGTACTATCTTCCCTGAGTTTGTGGGTAA
	193101 CACCTTCAGTGTGCATAACGGTAAAACCTTTATTAATGTTTATGTTACTG
	193151 ATGATATGGTAGGTCATAAGTTGGGTGAGTTTTCCCCCAACTAGAAACTTT
40	193201 AAACAACACTGCTAACCGTTAGTTATGATTGCTTTTGCTAAACAATAC
	193251 AGAGTTCACATCTCCCCCCAAAAAGCACGGTTAGTGTGCCAGTTAATTGT
	193301 GGGTAAGAAGATTAATGATGCGCAAAACATCCTTTTAAATACGCCAAAGA
	193351 AAGCTGCTTACTTTTAACTAAGTTACTAAATAGTGCGATTAGTAATGCC
45	193401 ACTAATAACCACGGGATGAGCGGGGATCTTTTGTATGTAT
	193451 TGCTAACCAAGGACCTAGCATGAAAAGAACAATCGCTAGAGCCAAAGGTT
50	193501 CAGGGAGTGTTTTAACCAAGCGTTCTTCAAACCTAGTTATTAAGTTATCT
	193551 GATAATCCCAATGAAAGAAAATTACTCTTAACCCAACAAAAGGAACTGGT
	193601 GAAAAAAGAACAATGGGTCATAAAAAAGAGAAAGCAAAGCAAAAGCAAA
	193651 AACAACAATAACTATGGGACAAAAAGTAAATTCAAACGGCTTAAGGTTTG

5	193701	${\tt GCATTAATAAGAACTGGATCTCACGGTGAACTGCCAGTTCCAACCAA$
	193751	${\tt ACAGCAACCTGATTAGTACAAGATGAGAAGATCCGTAACCTCTTTTTTAT}$
	193801	${\tt CAACTATCGCAACGCTCAGGTGTCTAATGTTGAGATAGAAAGAA$
	193851	${\tt CGACTGTTGATGTTTATGTCTATGCAGCTCAACCTGCTTTATTGATAGGC}$
	193901	${\tt AGTGAAAACAAAACATCCAAAAGATTACCAAAATGATCCAAATCATTGT}$
10	193951	${\tt GGGCAGAAAGATTAAACTTGATCTTACTATCAATGAGATCGGCTCTCCGA}$
	194001	${\tt TGTTATCAAGTAGGATCATTGCCCGTGATATTGCTAATGCGATTGAAAAC}$
	194051	${\tt AGAGTACCACTCCGTTCAGCAATGCGCCAAGCTCTAACCAAGGTTTTAAA}$
	194101	${\tt AGCAGGTGCTAATGGGATTAAGGTATTGGTATCAGGCAGATTAAATGGGG}$
15	194151	$\tt CGGAAATTGCCCGTGACAAGATGTATATTGAGGGCAATATGCCTCTTTCA$
	194201	${\tt ACTTTAAGAGCAGATATTGACTATGCCTTTGAAAAAGCAAAAACCACCTA}$
	194251	${\tt TGGCATTATTGGGGTGAAAGTATGGATTAACAGGGGGATGATCTATGCaA}$
20	194301	${\tt AGGGTTTAAACAGAACCCCAGCACACATCCTCCATCCCCAAAAGAAACAG}$
	194351	$\tt CTAAAAACCCCAACTATCAAAAAAACCAATTCAGTAATAGCAAAACAAAA$
	194401	${\tt ACTCACTGGTAGTGATATTGAAACTGCTAGTTTAAAAGCACTTACTGATA}$
	194451	${\tt ATAATCAAAACCACGAATAGTTAAGATGTTACAACCAAAAAGAACCAAAT}$
25	194501	${\tt ACAGAAAACCACATAACGTCAGTTATGAAGGACACACTAAGGGCAATGGT}$
	194551	${\tt TATGTTGCTTTTGGTGAGTATGGAATTGTTGCTACTAAGGGTAATTGGAT}$
	194601	$\tt CGATGCGAGAGCAATTGAATCAGCGCGGGTTGCTATCTCAAAGTGCTTGG$
30	194651	${\tt GTAAAACTGGAAAGATGTGAATCAGGATCTTCCCCCACATGTCAAAAACC}$
	194701	${\tt AAAAAACCCTTAGAAGTGAGGATGGGTTCAGGGAAAGGTAACCCTGAATT}$
	194751	${\tt TTGGGTTGCTGTTGAAAAAGGGGACAGTGATGTTTGAAGTTGCTAACA}$
	194801	TCCCTGAACAACAGATGATCAAAGCCTTAACAAGAGCAGGCCATAAACTC
35	194851	CCTGTTACCTGAAAACTAATGAAAAGAGAGGAGAACAGTTAATGACAATC
	194901	GCTAAGGAGCTGAAGCAAAGAGCAACGAAGAGTTAGTGAAACTAGTAAT
	194951	TAAGCTTAAGGGTGAACTCTTAGAATACCGCTTTAAACTTGCCCATGGTG
40	195001	AACTTGACAAACCCCATCTGATTGCCAAGGTGAGAAAGTTATTAGCAGTT
	195051	GTACTTACTATTCTCACTGAACGCAAACTCAACTGACAAGTTGAAAAAGA
	195101	TAAGTACAAGTTACTTTCAAGAAAAACCAATGAACTTATTGTTAACAGTT
	195151	GAAAGCAAAAACTATCAACTAAACCTGAATCCAAACAAGAAACTAAAAAG
45	195201	GCTGAAGTTAAACCTAAGGTTGAATCAAAGCCTGAATCCAAACAAGAAAC
	195251	TAAAAAGGCTGAAGTTAAAACCTTTAAAACAAGAAACTAAAAAAGTTGAAG
	195301	TTAAACCTAAAGTTGAACCAAAACCTTTAAAACAAGAAACTAAAAAGGTT
50	195351	GAAGCTAGGATTGAAACTAAAGTTGAATCAAAACCTTTAAAACA
50	195401	AGAAGTTAAAAAGGTTGAAGCTAAAAAATCTGTTTCAAAAACCCCAAAAAC
	195451	CAGTTAAAGCCAAAATGATTAAAACAAAGGAGAAAAAAACAATAATGAAGC

	195501 GCAACCAACGTAAGCAGTTAATTGGCACCACAAAAATGCT
	195551 AAAACAGCAACTGTCAAAGTAACATCACGCTTTAAACATCCTTTGTATCA
	195601 CARATCAGTTATTCGCCATAAAAAGTACCATGTCCATAACTTTGGTGAAC
	195651 TTGTTGCTAATGATGGTGATAGGGTACAAATTATTGAAACAAGACCCCTT
	195701 TCCGCTTTAAAGCGGTGAAGGATTGTCAAAATCATTGAAAGAGCAAAATA
0	195751 GTTTATGGTTAGTTTTATGACAAGATTAAATGTAGCTGATAATACAGGCG
	195801 CTAAGCAAGTAGGTATTATCAAAGTTTTAGGTGCTACATACA
	195851 GCATTCCTTGGTGATGTTGTTGTTGTATCAGTTAAAGATGCAATCCCTAA
	195901 TGGCATGGTTAAAAAGGGTCAAGTGTTAAGAGCAGTCATTGTTAGAACCA
15	195951 AAAAGGGACAACAACGCCAAGATGGTACCCACCTAAAGTTCCATGACAAT
	196001 GCTTGTGTGCTTATCAAAGAAGATAAATCCCCAAGGGGAACAAGAATCTT
	196051 TGGACCAGTTGCTAGAGAGTTGAGAGAAAAAGGTTACAACAAGATTTTAA
20	196101 GCTTGGCGGTGGAGGTTGTTTAATGCAAAGGATTAGAAAAGGTGATAAGG
	196151 TAGTTGTGATCACTGGTAAAAACAAGGGTGGTAGTGGGATAGTGCTTAAG
	196201 GTATTAACCAAGCAAAACAAAGCGATTGTTGAGGGGATCAATAAGGTTAC
	196251 TGTTCACAAAAAAGAACAAGTCAACAAGCGCAGCAAACAAA
25	196301 CTACTAAAGAAGCCCCTTTACCATTAAATAAACTTGCTTTATTTGATCAG
	196351 AAGGCCAAACAGCAAACAATTGGCAAGATCAAATACCAAATTGATCCTAA
	196401 AACCAAACAAAAAACAAGAGTCTTTAAGAAGACTAATAATGCCATTTAAC
30	196451 TGTTATGAATAACCTTGAAAAAACCTATAAAACTGAGTTAGTT
	196501 TCCAACAACAGTTGGGCTTTTCTTCCATTATGCAAGTCCCTAAGTTAACA
	196551 AAAATCGTTGTTAACATGGGAGTTGGGGATGCAATTAGAGACAACAAGTT
	196601 CCTTGAATCAGCACTAAATGAACTGCACCTGATTACTGGTCAAAAACCCCG
35	196651 TTGCTACTAAAGCTAAGAATGCTATCTCAACTTACAAGTTACGTGCTGGC
	196701 CAATTAATTGGTTGTAAAGTTACTCTAAGAAATAAAAAGATGTGATCCTT
	196751 TCTGGAAAAATTAATCTATATTGCTCTGCCCAGAGTAAGGGACTTTCGCG
40	196801 GTTTATCACTGCGCTCTTTTGATGGGAAAGGTAACTATACGATTGGCATT
	196851 AAAGAACAGATTATCTTCCCTGAAATTGTCTATGATGATATCAAAAGAAT
	196901 TAGGGGTTTTGACATCACTATTGTCACTTCCACCAACAAAGATAGTGAAG
	196951 CACTTGCTTTACTGAGAGCACTAAAGATGCCGTTTGTAAAAGAATAGATA
45	197001 TGGCTAAAAAATCATTAAAAGTAAAACAATCCCGTCCCAATAAGTTTAGT
	197051 GTACGCGACTACACCAGGTGTTTAAGGTGTGGGCGTGCTAGAGCAGTGTT
50	197101 AAGCCACTTTGGTGTGTGTGTGTGTTTCCGTGAACTTGCTTATGCAC
	197151 GAGCAATCCCAGGAGTTAAAAAAGCATCATGATAATCAATAAAGTTCCCA
	197201 AAGCCCATTTTGATCCAGTTTCTGATCTTTTCACTAAGATCAACAATGC
	197251 AGAAAAGCTAAGCTTTTAACTGTTACCACCATCGCTTCTAAGTTAAAGA

	197301	${\tt AGCTATCTTAGAGATTTTGATTAAAGAGGGCTATTTAGCTAACTATCAGG}$
5	197351	${\tt TGTTGGAAAATAAAACTAAAACCAAAAAACTAGTTAGTTTCACATTAAAA}$
	197401	${\tt TACACCCAAAGAAGGATATGTTCTATTAATGGGGTGAAACAGATCTCAAA}$
	197451	${\tt ACCAGGATTAAGAATCTATCGTTCCTTTGAAAAACTTCCCCTTGTTTTAA}$
	197501	${\tt ATGGTCTTGGTATTGCAATTATCTCCACTAGTGATGGAGTGATGACTGAT}$
10	197551	${\tt AAAGTAGCAAGGTTAAAGAAGATTGGTGGGGAGATTTTAGCTTACGTTTG}$
	197601	${\tt GTAAAAAATTATGTCAAAAATAGGAAATAGATCAATCAAAATTGATCCTA}$
	197651	${\tt GTAAAGTGAGTTTAATGCAAACAACAACACTGCTTACTATTAAAGGACCA}$
	197701	${\tt TTAGGGGAAAACACCATTAAACTACCCAAAAACTTACCCTTAAAGTTTGT}$
15	197751	${\tt TGTTGAAAATGACACTATTAAAGTAACTAATAACAACAACTTAAAACAAA}$
	197801	${\tt CTAAGATCTTACACGGTACTTTCAATGCGTTAGTTAACAACGCAGTTATT}$
	197851	${\tt GGGGTTACCAAGGGTTTTGAAAAGAAACTCATCCTAGTTGGGGTTGGTT$
20	197901	${\tt TCGTGCTAATGTGGAAGGGCAATTTCTCAACTTACAATTGGGCTATTCCC}$
	197951	${\tt ATCCTATTAAGGAGTTGATCCCAAACCAACTTACTGTTAAAGTAGAGAAG}$
	198001	${\tt AACACTGAAATCACCATTAGTGGAATAAAAAAAGAGTTAGTAGGTCAGTT}$
	198051	${\tt TGCCACTGAAATCAGAAAGTGAAGAAAACCTGAGCCTTATAAGGGTAAAG}$
25	198101	${\tt GGGTACTTTACTTTAACGAAGTAATTGTTAGAAAACAAGGTAAAACTGCA}$
	198151	${\tt GAGGGCAAGAAATAAGATGACAAGAAACGATAAAAGAAGGATTAGACACA}$
	198201	${\tt AACGGATTGTCAAAAAGATTAGGTTAACTAACCTTAACAACAGGGTTGTA}$
30	198251	${\tt CTAATTGTTATCAAGAGTTTAAAAAACATCTCGGTTCAAGCTTGGGACTT}$
	198301	${\tt TAGTAAGAACGTTGTTTTAACATCAAGTTCCTCACTTCAACTAAAATTAA}$
	198351	${\tt AAAATGGCAACAAGGAGAATGCTAAACTAGTGGGAATGGATATTGCAACC}$
	198401	${\tt AAACTCATCAAACTAAACCAAAAGGATGTGGTTTTTGATACTGGGGGTAG}$
35	198451	${\tt TAAGTACCATGGTAGGATTGCTGCTTTAGCAGAAGGAGCGCGAgCTAAGG}$
	198501	${\tt GTTTAAATTTTAAAGCTATGAATGATCAAAAAACTACTAACACTGGCTT}$
	198551	GTTAACTTCCACTCTTAAAACCAAGCCCAAACACAACCTTAAACCTTCCA
4 0	198601	$\tt GTGAAGCCATTAAAAAAGCAGTGTCCAAAAAGGAAGGTCATTACAAAAAC$
40	198651	${\tt AAGCGCTTTCAAAAACATAACTTTAATAACAAAAGTGAGTTTGAAGAGAGGGGGGGG$
	198701	GATTGTCAAACTCAAACGGATCTCCAAAACCACAAAAGGTGGGAGAAACA
	198751	$\tt TGCGCTTTAGTGTCCTTGTTGTTGTTAGTAACAAAAGGGCAAGGTTGGT$
45	198801	${\tt TATGGGATTGCTAAGGCATTGGAAGTACCACTTGCCATTAAAAAAAGCGAT}$
	198851	${\tt TAAAAAAGCCCATAACTCCATTCATACAGTAGAGATCCATAAGGGTTCAA}$
	198901	${\tt TCTACCACGAAGTGATTGGTAGAAAAGGTGCATCTAAGGTGTTGTTAAAA}$
5 0	198951	${\tt CCTGCACCTTTAGGAACTGGGATCATTGCTGGGGGAGCGATCCGTGCAAT}$
50	199001	${\tt TGTAGAGTTAGCTGGTTTTAGTGATATCTATACCAAGAACTTGGGAAGAA}$
	199051	${\tt ACACCCCCATTAACATGATCCATGCCACTATGGATGGGATCTTAAAGCAA}$

	199101	CTCTCACCCAAAAAAGTGGCATTATTAAGAAATAAACCAATTAGTGATCT
		ATAAAAACAATGGAACTACACCAATTAAAAAGTGTCTCTAAAAGCCGTAA
5		CCACAAGTCCAAAGTGGTAGGTAGGGCCATGGCTCGGGATTAGGTAAAA
		CATCATCACGTGGTCAAAAGGGACAAAAAGCAAGAAAATCAGGTTTAACT
		AGGTTAGGTTTTGAAGGGGGACAAACACCCCTTTACCGCCGGTTGCCTAA
		GTATGGGGTTGCTAACAAAGGGATCTTAAAAAAAAGGTGGGTTGTTTTAA
10		ATTTGAACAAAGTTGCTAAACTCAATCTCAAAACAGTTACTAGAGCAACT
	199451	TTGATTGAAAAAAAGGTAATTAGTAAAAAAAAATAACCTCCCTTTGAAGTT
	199501	AATTGGGAACACAAAACTCACTACTCCCATCCACTTTGAAGTGCAAAAAA
15	199551	TCTCCAAAAATGCTTTAAATGCAGTGCAAACTAGCAAAGGTAGTGTGAAA
	199601	ATTATCACCTAATGCAAACTGTTTCTTCACCCAAACAAAAACTTAACTTT
	199651	${\tt GGTCAAAGGTTACTAACTCTATTACAGAACCGTGACTTTATGGTGTCGCT}$
	199701	${\tt GGTTTTAACAGTGGTACTTTTAATCTTGTTTAGGGTGTTAGCAATTATCC}$
20	199751	${\tt CCTTACCAGGGATTAGGATTAATGAGAGTGTCTTGGATAGAAATTCCAAT}$
	199801	GACTTTTTTCACTTTTAACTTACTTGGGGGTGGGGGATTAAACCAGCT
	199851	ATCGTTGTTTGCAGTTGGGATCAGTCCTTATATCTCAGCCCAAATCATCA
25	199901	TGCAACTGCTTTCAACTGATCTAATTCCTCCACTTTCAAAGCTAGTTAAC
	199951	AGTGGGGAAGTGGGGCGAAGAAAGATTGAGATGATCACAAGAATTATCAC
	200001	CTTACCCTTTGCTTTAGTGCAAGCATTTGCTGTGATCCAAATTGCTACTA
	200051	ATGCAGGCACTGGTTCAAGTCCGATTAGTTTAGCTAATAGTGGCAGTGAG
30	200101	TTTATTGCTTTTTATATTATTGCTATGACTGCAGGGACTTATATGGCAGT
	200151	GTTTTTGGGTGATACTATCTCCAAAAAAGGGGTTGGTAATGGGATTACTT
	200201	TGTTAATTCTCTCAGGGATTTTATCCCAACTCCCCCAGGGCTTTATTGCT
35	200251	GCTTACAATGTTTTGAGTGGGATAGTAATTACTCTAACCCCACAGTTAAC
	200301	TGCAGCAATTAGCTTCTTTATCTATTTCTTAGCATTCTTAGTTTTACTGT
		TTGCCACTACCTTTATCACCCAAGCGACCAGAAAGATTCCCATCCAACAA
	200403	TCAGGACAAGGGTTGGTTAGTGAAGTCAAAACCTTACCTTATTTGCCTAT
40	200451	TAAGGTGAATGCTGCTGGGGTGATCCCTGTCATCTTTGCATCCAGTATTA
	200503	TGTCTATCCCTGTGACCATTGCCCAGTTTCAACCCCAAACTGAGTCACGG
	200553	L TGGTTTGTGGAGGATTACCTATCACTTTCAACACCCGTAGGGATCTTTTT
4 5		L ATATGCAGTTTTGGTTATCCTTTTTTCCTTTTTTACAGTTACATCCAGA
	20065	L TTAACCCAGAACGGTTAGCTAAGAACTTTGAAAAATCTGGCAGATTTATC
50		l CCAGGGATTCGACCGGGCAATGATACAGAGAAACACATTGCGCGGGTGTT
		AATAAGGATTAACTTTATAGGTGCTCCTTTTTTAACTGTTATTGCTATTA
		1 TCCCTTACATTGTTTCTTATTTCATTAGGTTACCTAACTCCTTGAGTTTA
	20085	1 GGGGGGACGGGGATTATTATTATTGTTACTGCTGTAGTTGAATTTATCAC

5	200901	${\tt TGCACTGCGTTCAGCTGCTACTGCTACTACCAACAACTAAGGAGAA}$
	200951	${\tt ACTTAGCAATTGAAGTGCAACAACAGCTAAACAAGATAGTCTAGAGCAG}$
	201001	${\tt CTTCAAAAAGAAGCACCAGGGATTGGTAACCTATGGTAGCACAGTTTAAT}$
	201051	${\tt AAGTTCATTATCTTAGGACCCCCAGGGGCAGGAAAAGGTACAGTTTGTAA}$
	201101	${\tt ACTGCTTAGCAAAACAACTAAGTTAGTCCATATTGCTAGTGGTGATCTGT}$
10	201151	${\tt TTAGAGAAGCCATTAAAAACCAGAGTGTTATTGGTAGAAAGATTGCAGCA}$
	201201	${\tt ATTATCAGTCAGGGTGGTTATGTTGATGATGCCACTACTAACCAGCTTGT}$
	201251	${\tt TTATGAATATCACTACCAATCCATTACCAAATGGTTTTATCTTAGATG}$
	201301	${\tt GTTATCCAAGAACAGAGAACCAGCTTGATTTTCTAAATATTAAACTAACC}$
15	201351	${\tt ATTGACATGGTCTTTGAACTAGTTGTTAGTGATCTGAATAAACTGATTAC}$
	201401	${\tt ACGGATTGATAACAGGGTTATTTGTAACAACTGTAACAGTGTTTATAACT}$
	201451	${\tt TGCTTTTCAAAAACCACTAGTTGAAAATAGTTGTGATCAGTGTTCAGCT}$
20	201501	${\tt AAACTAGTGAAAAGGAGTGATGATAACAAAGCAGTGGTCAAAGCAAGAAT}$
	201551	${\tt GGAGTTATATCAACAAACAATTCAACCAATCCACACTTACTT$
	201601	${\tt AACAACTTTTAGTACAAATTGATTGCTTTTTACCACTAGAAGAACAACTC}$
	201651	${\tt AAGACAATCAAACAATTTATTAGATAAAGATGATCTATCT$
25	201701	${\tt AATGAAGTTGCAGGGATTAAAAAAGCATGTGCAATCTTCAAAGCAGTTAA}$
	201751	${\tt GGCATATTTACAATTGAAAAGTTACTTGGCAAAAAGTTGGTTACCATTG}$
	201801	${\tt ATCGTTTAATCAAACAATTCATTGAACAAAAAAAAACAAGCTAAATGTGCGTTT}$
30	201851	${\tt CATGGTTATCTAGGTTTCCCTGGTTTTAACTGTCTATCGTTAAACCAAAC}$
	201901	${\tt GGTTATCCATGGAGTTGCCGATCAAACTGTTTTTAAAGATAGTGATAAAC}$
	201951	TAACGCTTGACATTGGGATAGACTATCATGGTTATCTTTGTGATGCAGCT
	202001	TTCACTTTACTTGGTAATAAAGCTGATCCAAAGGCAGTAAAACTGTTAAA
35	202051	TGATGTTGAACAAGCATTTAGTAAGGTAATTGAACCTGAGCTATTTGTTA
	202101	${\tt ACAATCCGATTGGTAATTTATCCAATGCGATCCAAACTTACTT$
	202151	AAGGGCTATTTCTTGTCAAAGAGTTTGGGGGTCATGGTTGTGGGATTAA
40	202201	GATCCATGAAGATCCTTTAATCTTAAACTGGGGAGAAAAAACCAGGGCG
	202251	TTAGGTTACAAGAGGGGATGGTAATCTGTATTGAACCGATGGTTATGACT
	202301	GATAGTAGTGAGATAACAATGGCAGCTAACAACTGGAATGTACTAACTTT
	202351	AAAGAGTAAGTTTAACTGTCATGTGGAACAGATGTATCACAACA
45	202401	ACGGCTTTGAATGTTTAACTAACTAATGAAAAACGATAAACTCTTTCTAA
	202451	CAGGTAAGATACTGGAAATTATCCATGGTGATAAGTACCGGGTGATGCTT
	202501	GAAAACAATGTTGAGGTTGATGCACATCTAGCAGGTAAAATGAAGATGAA
50	202551	AAGAACCAAGATTCTCCCTGGGGATGTTGTTGAGGTGGAATTTTCTCCCT
	202601	ATGATTTGAAACTAGGTAGGATAACCCAAAGAAAATAATTAAAATATTAT
	202651	GAAGGTTAGAGCAAGCGTAAAACCAATTTGTAAAGATTGTAAGATCATCA

	202701	AACGTCACCGCATCTTAAGGGTGATCTGCAAAAACCAAAAAACACAAGCAA
	202751	AGGCAAGGATAATGGCACGAATCTTAGGGATTGATATCCCCAACCAA
5	202801	$\tt CGGATCGAGATAGCTTTAACATACATCTTTGGGATTGGTTTGTCAAGTGC$
	202851	${\tt AAAAACAATCTTAAAAAAAGCAAAGATTAACCCTGATAAACGCGTTAAAG}$
	202901	${\tt ATCTGAGTGAAGAGGGAACTTGTTGCGATTAGAAACGCAGCAAGCGGTTAC}$
10	202951	${\tt AAGATTGAGGGTGATTTGAGAAGAGAGAGTTGCTTTAAACATCAAACACCCT}$
	203001	${\tt AACAGAGATCGGTTCTTGAAAAGGGATTAGACACAGAAAAAACCTGCCAG}$
	203051	TAAGAGGACAACGCACTAGAACCAACGCAAGAACCAGAAAAGGCCCTAGA
	203101	${\tt AAAACAGTGGCTAACAAGAAAATTGAAAGTAAGTAATGGCTAAGAAAAAA}$
15	203151	${\tt AAGATTAATGTTCCCAGTGGTTTGATCCATGTCTCCTGTTCACCTAACAA}$
	203201	${\tt TACCATAGTATCAGCCACTGATCCCAGTGGTAATGTCTTGTGCTGAGCGA}$
	203251	${\tt GCAGTGGTACAGGATTCAAAGGTTTTAGAAAGAAAACCCCTTACTCA}$
20	203301	${\tt GCAGGGGTAGCAGCTGATAAGGTGGCTAAAACTGTGAAAGAGATGGGAAT}$
	203351	${\tt GGGGAGTGTTAAGATGTATCTGAAGGGAACAGGTAGAGGAAAAGACACCA}$
	203401	CGATTAGAAGCTTTGCTAATGCTGGGATTACGATCACAGAAATCAATGAA
	203451	AAAACCCCTATTCCCCACAATGGCTGCAAGCTCCTAAGCGTCCGCGCTAA
25	203501	TCAAAACAACAACTTATGGAAAAATTTTTAAAGTACGAAATTAAGGTTAA
	203551	CAACAACCAACCAACACTAACCTAACTATGGGATCTTTGAAGTAG
	203601	CACCGTTAGAATCAGGATTTGGGATTACCATTGGTAATGCGATGCGCCGA
30	203651	GTGTTACTTAGTTGTATCCCAGGCGCTAGTGTGTTTGCCATTGCCATTAG
	203701	TGGGGTAAAACAAGAGTTTAGTAATGTGGAGGGTGTGTTGGAAGATGTGA
	203751	CTGAAATGGTGTTAAACTTCAAGCAACTAGTGGTGAGAATCTCTGATCTT
	203801	TTGTTTGAAGATGGGGAGATGATCGAACCACCCTTAGAAAGGTGACCAGT
35	203851	TTTAAAAGTTACTGCTGAAAAAAAGGGTGCAGTATATGCAAAGGATCTTG
	203901	AGTGTCCAGCTGGTTTTGAAGTGATTAATAAGGACCTTTATCTCTTCTCT
	203951	TTACAAAAGGACATGAAACTAACAGTCAGTGTTTATGTTAAACAGGGTAG
4 0	204001	GGGCTTTACTAGCTTTCTTGAAAACAGAGAATTGATCAATTCGCTTGGCA
	204051	TTATTGCTACAGATGCTAACTTTTCCCCGGTTTTACACTGTGGTTATGAA
		GTTCAAGAGGTGAAAACTTCCAAACAAAAGTTAACTGACCATCTCACCTT
		TAAGATTGCTACTAACGGTGCAATTAAAGCAGTGGATGCGTTTGCTATGG
4 5		CAGCAAAGATCCTAATTGAACACTTAAACCCAATTGTAAGTGTCAATGAG
		TCAATTAAGAATTTAACAATTATCCAAGAGAAAGCAGAGGAAAGAAA
	204301	GAAATCATTTGCCAAGCAAATTGAAGAACTTGACTTTACTGTTAGAACCT
50		TTAACTGTTTGAAAAGAAGTGGGATCCACACACTCCAAGAGTTACTATCA
55		AAGTCATTAACTGACATTAGAGAGATTAGAAACCTAGGTAAGAAATCAGA
	204451	ACGGGAGATTATCAAAAAGGTGCAAGAGTTAGGTTTAAAATTCCGTTCTT

	204501	AATAAAATAGAGCTATGTCATACATTAATAAAGAGGGGAAAAACCACAGC
	204551	$\tt TGAAGAGTGATGACAGTGCGTCAGCAAGTGAGTGCAGTGTTAAGTTATGCTTATGCTGAGTGAG$
5	204601	AAAGATTCAAACCACTTTAAAAAAAGCTAAGAACACCCAAAAAAGGTTAC
	204651	AGAAGATTATTACCATTGCTAAAGTTGATAACTTTAACAACCGCAGGGCT
	204701	${\tt GTTAAAAAGTGGTTATTAAATACCAATTCATTAGATGTAGATCAACTCACCACCACCACCACCACCACCACCACCACCAC$
10	204751	AAACCACCTTTTTAAAAAAGTAGCACCACGTTTTTTAAAGCGTAATGGTC
	204801	${\tt GTTATAGTAGAGTGTTAAAGTTGGGAGTTAGAAGGGGTGATAGTACTGAAGTTAGAAGGGGTGATAGTACTGAAGTTGGGAGTTAGAAGGGGGTGATAGTACTGAAGTTGGGAGTTAGAAGGGGGTGATAGTACTGAAGTTGGGAGTTAGAAGGGGGTGATAGTACTGAAGTTGGGAGTTAGAAGGGGGTGATAGTACTGAAGTACTGAAGTAGTAGTACTGAAGTAGTAGTACTGAAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTA$
	204851	ATGGCGATCTTACAGCTGATAGATGCTACCAACTAAACAAGCTGCTTGTA
	204901	${\tt GTTTTATTAATGTTGCTTTTTCCTATAATGAACTGCCATTAATTA$
15	204951	$\tt CTATCTTTTAGTGTTTATGAGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGTTGGTCATAMAGGGGGGAATATGTTTGTTGTTGTTGTTGTTGTTGTTGTT$
	205001	TGGCAGTGGTAAATCAACCATTTCCAAACTGTTAACAGGGTTATTAAAGC
	205051	$\tt CCCAGGCAGGTGAGATTAAGATCTTTGGTAAAACAGTTGATTTTGATAATGGTAAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAATGGTAAAAACAGTTGATTTTGATAATGGTAAAACAGTTGATTTTGATAAATGGTAAAACAGTTGATTTTGATAAATGGTAAAACAGTTGATTTTGATAAATGGTAAAACAGTTGATTTTGATAAATGGTAAAATGATTGAT$
20	205101	GTTAGTTACTTGAGAAATAACATTGGGATCATCTTTCAAAACCCTGATAA
	205151	$\tt CCAGTTTATTGGGATCACTGTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGGGGCTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGACATTGCCTTTGAAGATGAAGATGACATTGCCTTTGAAGAA$
	205201	ACAAGTGTTTTTCAAGACAGAAGATAAAAGCCATTATTGATGAAGTTACC
	205251	CTACAAACCCAAACTGATGGGTTTATTAAACAAGAACCCCATAACCTAT
25	205301	AGGGGGACAAAAACAACGGGTAGCAATTGCATCTGTTTTAGCACTAAATC
	205351	CTGCTATTATCATCTTTGATGAATCAACTGCGATGTTAGATCCTAAAGCT
	205401	AAAAAACGATTAAGCAGTTTATGGTTAAACTAGCCAAACAGGGCAAGTC
20	205451	TGTGATCTCAATTACCCATGATATGGAAGAAGTTACTAAAGCTGATAAGC
30	205501	TGTTAGTAATGAATGAGGGCAAACTGATCAAACAAGGTAAACCTGTTGAA
	205551	GTTTTCACTAGTGAACAAGAGTTACAAAAAATCCGTTTAGACATCCCTTT
	205601	TTCACTCAGTCTTTCAACCAAGATAAGAGGGATCACTAGTACAATTGATT
35	205651	ACCAAACCCTGATTAAATCAATTGCCAAGCTGTGAAAAAAAA
	205701	CAATTAACCCTTTAAAAGCAGATGAGATTTTAGCAGTTAGTCACTTATC
	205751	TGTGTTTTTAACAGTAAAACTAACAATCCCATTAAGGTGATTGAT
40	205801	TTCCTATACCTTTCAAAAGAACCAAATTTACTGTATTATTGGTGATAGTC
10	205851	GCAGTGGTAAATCAACCCTTGTTAACCACTTCAATGGGTTGATAAAACCC
	205901	${\tt AACCAAGGTGATATTTGGGTTAAAGATATCTATATTGGTGCTAAACAACCACCACCACCACCACCACCACCACCACCACC$
	205951	CAAGATTAAGAACTTTAAAAAACTGCGAAAAACTATCTCAATTGTTTTCC
1 5	206001	AGTTTCCTGAGTACCAATTGTTTAAAGATACCGTGGAAAAAGACATTATC
	206051	TTTGGTCCAGTAGCATTAGGTCAATCCAAGTATGATGCGCGCCAAAAAGC
	206101	${\tt GGCTTATTATCTGGAGATGATGGGGTTAAAATACCCTTTTTTAGAACGTA}$
	206151	ATCCCTTTGAATTGAGTGGGGGGCAGAAAAGAAGGGTAGCGATTGCTGGT
50	206201	${\tt ATACTTGCAATTGAACCAGAAATTCTAATCTTTGATGAACCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGC$
	206251	GCTTGATCCTGAAGGGGAAAGGGAGATGATGCAGTTAATTAA

	206301 AACAACAACAAGAACGGTATTTATGATCACCCACCAGATGGAAAATGTC
	206351 CTTGAGGTGGCTGATGTGGTTTTGGTTTTAGCTAAGGGTAAACTAGTAAA
	206401 AGCTGCTAGTCCATATGAAGTGTTTATGGACCAAACTTTCCTTGAAAAAA
	206451 CAACGATTGTTCTCCCCCCTGTGATCCAAGTGATCAAAGATCTAATTGCG
	206501 ATTAATGCTCACTTTAATAAGTTAATTGAGTTGCAACCAAAGAACCTAGA
0	206551 ACAGCTTGCATCAGCAATTAACAAGACTATAGCAAACCATGGATAACTTT
U	206601 ATTAATGGCTATATCCCAAGAAACAGCTTTGTTCACAAGCTGCATCCAAC
	206651 TACTAAACTAGTAATCTTTTTACTGTTAGTTATCTTGGTATTTGTACCAA
	206701 TTGGCTTTGTTTTCAAAGTGTTATCTTTCTTTTTTTTTT
5	206751 TTTATTGCTAAACTCCCGGGGCGGTTTTACAGTTCAGCAATTAAGTCAAT
	206801 TACGCTGTTATTTCTCTTGTTGTTATTTGTAAACTGGTTTACCTTTCGTG
	206851 ATCCAGGGTTTTATCTTACTAGTGATCAACTTAACAGTTTACCAGCCATT
20	206901 GATAACAGCAAGTTTAGCTTTTGAAACATTAGTTTGTTTAACTATCAAGA
20	206951 TAATGTTTTTCCCAGGTTTTTGCTTTTAACAGGGGTAATTTAACCAACT
	207001 TAAATCAACTTGATTTTTCTATAAAGCTAACAATGCTGATAGTTACACC
	207051 AAAGTAAAGGGCATTGATAGTTTAGCAAGTATGCTAGCAAACAATGGCAA
25	207101 TGGTTTAAGCAAAGACAAAATTCTGAGTGCTTTTTTAGATCACAATTTAA
	207151 ACCTTTATTTAGCGAGAAGTTGGGGGGCAAATTTTGCTGGGTTTGTTGTT
	207201 GATTTTAACCCAACAACCCAACTCTTTAAACTCACCCCTTTTCTAGCAAA
	207251 TGCTAGTTATGTTTTAACGTTAAGAGCAGTTATCTTAGCATTCTATGTCA
30	207301 CCCAAAAGATCCTAATTATGATCTTATTTGCAACTGTACTCACTTCCACT
	207351 TCAAGTTCAGTTGAACTAGCATATGGGATTGAAAGGTTATTATGACCTTT
	207401 AAAACTCATTAAAATACCTGTTAATGTCTTTGCAATGACCATTGCCATTG
35	207451 CCATTAGGTTTGTCCCTTCCTTGTTACTAGAATCACAACGGATCTTAAAT
	207501 GCCCAAGCCTCCAGGGGTTTAGACTTTCGAAATGGGGGATTTTTAGTGAA
	207551 GATGCGTTCACTCTTCGTTAGTAGTGCCAATGGTTTCCATTGCCTTTC
	207601 GCAATGCCTCTGAACTTGCTAGTGCAATGGAAGCAAGGGGTTATCACCCT
40	207651 GCAAAGAAGCGCAGTAGTTATAGACAATACAAAATCACTTGGATTGATAT
	207701 TTTAGCGTTATTTTTGGTTTTGCTTGGTTTGTTGTGATTATCTTTTTAA
	207751 CTATTAGAGGAGCGGTCTTTTTGGATCTAGGTACACCAGAATGGTTATTA
45	207801 ACAGGAAAGATTAATGAACAGGTAATCAGGGATCTGAAGGTAAGTGGCTA
	207851 GGTACTTGGGGATTGTTAGTTATGATGGCAGTTACTTTAAAGGGTGAGCG
	207901 ATTCAACCAAACCTAGCTACTATCCAAGGTTTATTGGAGCAAAGTTTTTC
	207951 ATTAATCATTGGCAGAAAGATAAAGGTAATTGGTTCAGGTAGAACTGATA
50	208001 AAGGGGTACATGCCATCAACCAAACCTTTCATGTTGATATTAATGGTGAA
	208051 ATTAATCTCAATTTGTTAATTAGAAAAATTAACCAGTTGATTAAGCCCCA

	208101	$\verb CTGTATAGTTAAAACCTTGGTATTGGTTAACGATAGCTTTCATGCGCGGT \\$
	208151	${\tt TTCAAGTTAAAACCAAGGTGTATGAATATCTGATTAACTGTGGGAATTTA}$
5	208201	${\tt AATCCGTTGCAATTTAACTATGTTTGGCAGTTAAACCAGCAATTGGATCT}$
	208251	${\tt TGAAAAACTCAAAGCTGATGCCACTTTATTTTTAGGTAAGAAAAACTTTC}$
	208301	${\tt TTAGCTTCAGTAGTTCGATTCACACTGATTCAATTCGCACAATTAGTAAA}$
10	208351	ATTACCATACAAAAAGAAACTAACCAACTAGTTAGACTAACTTTTTTTGG
	208401	${\tt CAGTGGTTTTCTCAGGAGTCAAGTGAGGATGATAGTTGCTTGTTTAGTGAGGAGGATGATAGTTGCTTGTTTAGTGAGGAGGATGATAGTTGCTTGTTTAGTGAGGAGGATGATAGTTGCTTGTTTAGTGAGAGGATGATAGTTGCTTGTTTAGTGAGAGGATGATAGTTGCTTGTTTAGTGAGAGGATGATAGTTGCTTGTTTAGTGAGAGGATGATAGTTGCTTGTTTAGTGAGAGGATGATAGTTGCTTGTTTAGTGAGAGAGGATGATAGTTGCTTGTTTAGTGAGAGAGA$
	208451	ATTTAAACACTAATAAAATGGCACTTGAAACAGTTGCAAAATTGTTTGAA
	208501	$\tt CACCCCAAGAAAGGGAGTTGTTGTTTAAAGCCCCTAGTTGTGTTTGTAAAGCCCCTAGTTGTGTTGTAAAGCCCCTAGTTGTGTTGTAAAGCCCCTAGTTGTGTTGTAAAGCCCCTAGTTGTGTAAAGCCCCTAGTTGTGTAAAGCCCCTAGTTGTGTAAAGCCCCTAGTTGTAAAGCCCCTAGTTGTAAAGCCCCTAGTTGTAAAGCCCCTAGTTGTAAAGCCCCTAGTTGTAAAGCCCCCTAGTTGTAGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTGTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAGCCCCCTAGTTAAAAAGCCCCCTAGTTAAAAAGCCCCCTAGTTAAAAAGCCCCCTAGTTAAAAAGCCCCCTAGTTAAAAAAAA$
15	208551	${\tt TCTGAAAACAGTGGTATATGAAAAATAGTTACAAGTGGGATCTATCAGTT}$
	208601	${\tt TTATTAAACAACCAAAGCTTACAAGCAAATTTTTAAAAATTCAAACAGT}$
	208651	${\tt TAGTGAAGCGTTAATTAAAGCTTATAACAACGGGTTGTGTTTTACAAATA}$
20	208701	${\tt AAACTAGCTTTGAACAGTTTTTAGCAATCGATGATAAGTTCACTGAACTT}$
	208751	GAAAATCGTTACACTAACTACCTTTATAACAAGCAGAATGAAAATAACTT
	208801	GGATAAGGAGGTTAATGATGCAATTTTTGCATACCAGAGTTTTAAAAATA
	208851	ACCATAACCTTGCTTTCAGTACACTGCAACAGGAGTTATATAACCATGAA
25	208901	${\tt AAACTCATTAAGGATTATTTAACTGATCCAAAGCTAGCGGTTTACAAGCG}$
	208951	CAACTTAATGTTAGTTTTTCGCGATAAACCCCCACCAACTATCTAGTCAAA
	209001	$\tt CCCAGAGTTTATTGAGTCAAATTAACCCTTGTTTTAACCAAGCAGAACGG$
30	209051	${\tt ATTTTTAACATCCTTTCAACTGCTGATTTAAACTTGCAACCTGTTGTTTAACTTGCAACCTGTTGTTTAACTTGCAACCTGTTGTTTAAACTTGCAACCTGTTGTTTAAACTTGCAACCTGTTGTTTAAACTTGCAACCTGTTGTTTAAACTTGCAACCTGTTGTTTAAACTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTGTTTAAACTTTGCAACCTGTTGTTTAAACTTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTGTTTAAACTTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTGTTTTAAACTTTGCAACCTGTTTGTT$
	209101	TCAAAACAAAAATATCCGATTAACAGTGTGAGTGATTATCAGTCCTTAC
	209151	${\tt TTGAAAACACTAACAGGGGGATTAGAAAAGCTTGTTATGAGAAGTGGATT}$
	209201	${\tt GAAATTTATTGAACTAATAGAAACAGCTTAAGTTTAAGTTTGGTGGAAAA}$
35	209251	TTACATCCAACTAGAGAACTTCGCTAAACTAAAGAACCATCCTAGTTACA
	209301	$\tt TTGCCCAAACTGCTTTTAATGATGAGATTGAAGTTGGTTTTATTGATTTT$
	209351	GTTTACCAACAAGTAGCTCAGTTTGCCAAAACCTTTCAAGCATTTATTCG
40	209401	CTTAAAAAAACAGATTTATAAACATGTTTTAAAAGTCAATAAAGTTGAAC
***	209451	CATATGATCTTACCCTAACACTTTTTAAAACTAAAAAATCATACACGATT
	209501	GAACAAGCTAAACAAGATGCACTAAAAGTTTTAGATCTACTTGGTGACAA
	209551	$\tt CTACATCAAGATAGTTAAAAAGGCTTTTAATGAAAACTGGATTGATT$
45	209601	TAGCAGATAAAAACAAGTACACAGGGGCATATTCAATCTCCAATGTTAAG
	209651	GGCTTAGAGCACTTTTTTATCTTAATGAACTTTGATAAAACCAAATCATC
	209701	ACTAAATACGTTGGTACATGAACTTGGTCATTCAGTTCACTCTTGGTATG
50	209751	CATCACAACACCAATCCCAAAACATCGATCCTACTATCTTTTATGCTGAG
50	209801	ATTGCTTCTATTGCCAATGAACTGTTGTTGTTGTTATTATGAGCTGCAACT
	209851	TTATAAAAATAACCACAAGCAGTTAATTGCTAGTTTATTGAGTCAAATCA

	209901	ACCATTTTTTGGCGCTACTACAAGACAAATAATGTTTTCACAATTTGAA
	209951	AAAGATACGCTTTATTTAATCAGAGTTAACCAGAAACCTGACTTTAAAAC
5	210001	TTTGATTAAAATTTATGCAAATACTGCGGTTAAATACCAAGGTTTTAAAC
	210051	CTGAAGTAGTTGCTAATAAACTAAAAAAGACCCAGTATCAAAAATCATTG
	210101	TCACACATCATTGCTATCCCCCATTTTTATGCAGGTAACTTCTATGTTTA
10	210151	${\tt CAAGTATGCCATTGGCCAAGTTGCAGGTATTTTAGTAGCTAAAAAAATTA}$
,,	210201	ATAGTGGTGATAAAAAGATGAAAGATAATTACTTTAAATTCCTCAGTTCA
	210251	${\tt GGTTCTAGTTTAGCGCCACTTGAAACCATTAAACTCTTAGGGATTGACCT}$
	210301	${\tt TACTTCACCCCAACCCTGACAAGAAGCACATAACGAAGTAAAGCGTTGGC}$
15	210351	${\tt TTAAAATTGTGAAACAAAGCTTTAAAAAAACTCCAAAAATAAGTGCACCAT}$
	210401	${\tt TTTAACCGCGCTAAAAAGGCCAAGAATAACGAGTTTTTTACTTTAATTGA}$
	210451	TGAGATTGAAAACGAAGTAATTAACTACCAAAAGCAGTTTGCAAATAAAA
20	210501	${\tt CCATTTTTTGTAACTGTAATGATGGTAAAAATTCCCATTTTTTTCAGTTT}$
20	210551	${\tt TTTCAAACTAACTTTAACCAGTTACAACTAAAAAAACTCATTGGGTTTAG}$
	210601	${\tt TTTTAATAATCTCTCACAAGCTGACAAGTTCACTTTTGATGGAAATAAAG}$
	210651	${\tt TAACTAAAACCAAATTAAAGGGTAATGGTGATTTAGTTCTGATGAATCG}$
25	210701	ATTGAAGTGTTAAAACAAGCAGATATAGTTGTAACAAATCCACCCTTTAG
	210751	${\tt TTTGTTTCAAAGTTTCATTGATCTGTTAATACAACACAACAAGCAGTTTC}$
	210801	TGGTTTTAGGGTTAAATGCAGCAGTTAGCTATAACCATATTTTTACCTAC
30		TTTAAAACTAACAAGTTGTGGTTTGGCTATACCGTTAATAAAACAATGAG
30	210901	TTTTTCAGTTAACAGTGACTATCAACTTTATAACCCCAAAACTAGTAACT
		TTTTTACAAAAATGGCAAGTGTTTCCAAAAGATAGCAGGTATCTCTTGG
	211001	TTTACTAATTTAGGAAAACCACATTATAACCCCTTTTTAAATACCAACTG
35		TTTTTATAAAACAACGAAAAAAACTATCCCAAGTTTGATTGGTATGATG
	211101	CTATTTATGTCAACAAGATTAAAAACATCCCTATGGATTGAAATGGATTG
		ATGGGAGTTCCTTTAACCTTTTTAAACTGTTACAACCCCAAGCAGTTTGA
40	211201	ATTAGTTGATTGTCTTGCTAACCCTTATGCTACCTTAGATACATTAAAAA
40		CAAATGCCTTTGTGAAATTAAATCAGGGTGATGTGAGAAATGTTAATGGT
		AAAAGAAGGTATGTAAGGGTAATAATTAAAAAACAACAAATTTAGTTTTT
		TCAACATTTAACAACTCTGTTTTTACAAAAGTTAGCTTAATTTTGCTAAA
4 5		TTGTTTTTTGATAGCACACTGCTGTCAACGAACCATGTTGATAAATGAAA
		TTCAAACTATTTTTTTTATCAAGCAGTGTGTTGGGTCCAATTGCCCTATT
		TACAACTGCTTGTAGTGCTGTTTATAGGTTTGATCAAGTTGATGATGGCA
50		AGATTAAACTAGCAACTGTAACTTCAGCTTCCGCTAGTGGCTCGCTTACT
50		ACTATCATCAGTAAATATAATTCACAAAAAGATCCTAATGATTATCCAGT
	211651	GGAACTGGTTTCACTTGATAGTAGGGGCAGTTATTCTAATGGCAAAAAGG

	211/01	Aleidendellaneidellidellandillandelli lillinget.
	211751	${\tt ACTTTTAACTATAGTGATGTAGTTTCAATCCTCTCAAGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCCAGATGGAAGCAGATGGAAGCCAGATGGAAGAAGCCAGATGGAAGAAGCCAGATGGAAGAAGCCAGATGGAAGAAGCCAGATGGAAGAAGCCAGATGGAAGAAGCCAGAAGAAGAAGCCAGAAGAAGAAGAAGAAG$
5	211801	${\tt GTTGAGCTTTGATACGGTTGATACTAGTAATTTTGATCCTAGTTTTCTTAGTGTGATACTAGTTTTCTTAGTGTGATCCTAGTGTGATCTAGTGTGATCCTAGTTTTTTGATCCTAGTGTGATCCTAGTGTGATCTAGTGTGATCTAGTGTGATCTAGTGTGATCCTAGTGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGTGATGA$
	211851	${\tt GTTTTAACAATAATATTTCCAATGTTAATCCAAATAGCATCTATGCTTTAACAATAACAATAACAATAATATTTCCAATGTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATGCAATGTTAATCCAAAATAGCATCTATGCTTTAATCCAAATAGCATCTATGCTTTAATGCAATGTTAATCCAAAATAGCAATCTATGCTTTAATGCAAATAGCAATCTAATGCAAATAGCAATCTAATGCAAATAGCAATCTAATGCAAATAGCAATCTAATGCAAATAGCAAATAGCAAATAGCAATCTAATGCAAATAGCAAATAGCAAATAGCAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAATAGCAAAAATAGCAAAAATAGCAAAAAAAA$
	211901	${\tt CCTGCTACTGTATCAGGTGAAGTTTTAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAGGTGAAGTGTAGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAGGTGTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGTGAAGTTTTAAATGGACCGGTGTTACAGGACCGGTGTACAGGACCGGTGTTACAGGACCGGTGTACAGGACCGGTGTTACAGGACCGGTGTACAGGACCGGTGTACAGGACCGGTGTACAGGACCGGTGTACAGAGAGAG$
10	211951	TTACATTTTAAGTAGTGCTAAAAAAGATAGTAACACCACCCTTTCAACCC
	212001	ATTCAGCTAGCAATAATAGCAATAAGGGAACAATGGTTGTTGCTAGTGAT
	212051	${\tt AGTGAAACATCAAGTTTATGAACTAAATTAGAAGCTGCAGCAAAAATGAAGTGAAGAAGAAGAAGAAGAAGAAGAAGAAGA$
	212101	TGCTCAAACTAATGAAACCCAAGTTTTAAAAAGTAATTCATCAGAATCTA
15	212151	ACCAAACCCAAGCTAGTGATACAGAGATTAAAAAGATTTGGGGTGATTAT
	212201	CAAGAAGTTGATGGAGGGTTGAAAAATTACACCTTTAAAGCTAGTGTTTT
	212251	TAACAATTGAAAAGACCTAAATGACTTTGCCACCAGGATTGCAAAATCCT
20	212301	TTACAAAACTGCAAACTACCACTAAAAAAGGGGAGGAAGTACAAGCTGTA
	212351	${\tt TTTGGGATTGGTAGTTTGGAAAATGCCTTATATACTGCTTTATTTGCTTCCTTC$
	212401	TGGAAAAGCTGATTACAATAACTTTCTTTTTAACATCAAAAACCAGCGAA
	212451	TTAATTTCAGTAACTTTTTTAATAAATCCTCAACTGCATTTCAAAACCTT
25	212501	AAAACTATCTTTAACAGCTTCAAATCCTTAATTGATCAAAACGGTTTAAT
	212551	CTCAAATGCACACTTTAACACCCCAGTTAATGACTATGCTAAGTTTAACC
	212601	AATTAGCTTTTTACACCTCTTCAACTGCACGCTTTCCCTATTCATTTGC
30	212651	AGTGATAGTGTAAAGCGTTTAATAGTTAATGACAAGACAATTGAAAAACAA
	212701	AAACAATAAGAGTGTTTTTGAGGTTAATTTAAGTAGTGATAGTGATAACA
	212751	ACAGTAACCTAATTGGTACTGTATCACTGGAAAATAGTAAACAAGTTTCA
	212801	CTCTATGAAAAGCAAGTGGATAGTAATAAACAAATTGGTGTTGATGCTTT
35	212851	GTTAATCAAAGATGAAACTTTAATCAACCATCTTAAGAGTTTAAAATCGC
	212901	AAGTTAGTGCAAAAAGTGCTAGTGAAACTTCCCAAACAAA
	212951	ACCTTTTTAGCATTTACAACTGTGAATGCAGATCAAAAAGCAATCTTTGA
40	213001	TGTTGGTAAACTTAATGGCAAAACTGCCAAAATCATTATTAATGCTACTG
	213051	AAACAACTAATGCTAAGATTAGCACCTTACAAGAAAAAGAGGCAATAGTT
	213101	CTAAAAGCACCCCAACGCTTTGAGAGCACTGATCCATTTCCTATTGCTTT
	213151	AGTGCAAGGTCCTAGTTTAATAGGGATCCATGCAAATGAAAGAGAGGGATA
45	213201	TTGAAACCAAAAGTTTGTGAATTGGTATCTGAATACTAAAGTCCAATGG
	213251	GAAGAAAATTCTATTAAAACTCCTGCAGAATATGTAGCTGATAAAGCLTC
	213301	TTATCTTTTACCTTTTAAAAATAGGCTAAATAATACTAACAGTTACAATG
50	213351	AGTTTGTTAAAACTGCAGTTAGTCAGTTTGCTGATAAAAATGTAACTAAA
50	213401	TTTGCAGAACCTGCTGATTTTTTATCCAACAAGTACGTGATGGTGTTAA
	213451	GAGTAATTTAAATGCTGCAATTAACAACCACAGCATTGATTTTGATAGTT

	213501 TTATCAATGATTTAACAGACTATCTTGGTAGTGATGTTAAAAACATCTAA
	213551 TAATTTATTCCCCCAACCTCTATTTTCTGTTACTAGTGCCTAAGGTGGTA
5	213601 GTGGAGTATCACAACCTGAATAACCAAGTAGTCAAAGAGAGTTTGGAAGT
	213651 GGAATCTTCTTCCTCTTTCAACCCCACCCAAAGGTTGCAAAAAGATAGTC
	213701 CGGTGAAGGATTCAAACAAAGACAGTGAGAAACTCGAAACAACTGCTTCA
10	213751 TCGATGAGTAGTGGGGCTACATCTCCTCGCAAGGCCCTTAAGATAGAGGT
	213801 GGAGAAAGGCAGTAATGTCAATCAAGGCGAACTAGCAAAAAACGACTTTG
	213851 CTAAAAAGCCACTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAGTTA
	213901 GCTGCGAATGGGGAGTTTGCAGGAGACAAGGCCTGAAAACCATTGTTGAC
15	213951 TACCGAGCAAATAAAAGATAATAGGGGGGATGGGGGCTTTCTCCAACTCCC
	214001 CCTCCCCTTCAACTTCCGCTTCCTCAACCCCCCTCCCCACTTTTTCTAAC
	214051 ATCAATGTTGGGGTTAAATCAATGATCACTCAACATTTAAATCAGCAAAA
20	214101 CACCCGGTGGGTGTTTATACCTAACTTTTCACCTGACATCTGAACAGGAG
	214151 CAGGTTATAGAAAAGCTAATAACAACAATAACGGCATTCCTTTTGAACAG
	214201 GTGAAACCTAGCAATAGTAGTCAACAGTTTAATCCCAATTCAGATGATAA
	214251 TAAAGTCACTCAAGGTGGTGGCTCCCCAGCCAAAAAAACAACGTATGACA
25	214301 ATTTACCAAACTCCATCAGTCCCACCAGTGACTGGATCAACGCATTGACT
	214351 TTTACTAATAAGAATAACCCGCAGCGCAATCAACTGTTGCTCAGAAGCTT
	214401 ACTAGGAACTATCCCGGTCTTGATCAATAAGAGTGGAAGGAA
30	214451 AGTTTACCCATACGAGTGAGCAGAAGTGGGATAAAACGAATGAAAAAGAT
30	214501 GGGAATTTACCTGGGTTTGGGGAGGTGAATGGTGGTTTTATTATGTTTTT
	214551 ATCAAATCTTTATTTACTTTAATAGTTAAAAAAGTTTTGAATTTTTCTTA
	214601 GTTTTTTTTTTTTTAATATTTAAGAAAGTCTCAAATTTTTATCAGTTTA
35	214651 TTGGTCAAAGAAGTCGCAAATTTTCTTAATTTATTCAATAGTTAAA
	214701 AAAGCGTTAGGTTTTTCTTAGTTTTTTTTTTTTTTTAATATATTTAAAAATT
	214751 TCTTGATTTTTATCCTTAATTTAATTAATAAAACCTTTACCCCTATTAT
40	214801 ACAAACCATCCATAACACCAACCTGTTTGTGTTGTTCAAGTCTAGGGATG
40	214851 TAAAAGTTAAGTATGAGTCAAGTGGCAGTAACAACATTAGTTTTGATTCA
	214901 ACTAGTCAAGGTGAAAAACCATCCTATGTGGTCGAGTTTACTAACTCTAC
	214951 CAACATTGGCATCAAGTGAAGCGTGGTGAAAAAGTATCAGTTAGATCTAC
45	215001 CAAATGTTACCAATGAGATGAACCAAGTGTTGCAAGAATTGATCCTAGAA
	215051 CAACCCCTTACCAAGTATACCTTAAACAGTAGTTTGGCTAAACAAAAGGG
	215101 TAAAACCCAAAGGGAGGTGCATCTCTCAAATTCAAATCAGTGACAATCGA
50	215151 TGCGTAATCAACATGACCTAAACAACAATCCCAGCCCCAATGCTTCAACT
30	215201 GGATTTAAATTAGACAAAGGCAATGCATATAGAAAACTAAGTGAATCCTG
	215251 ACCAATTTACCAACCAATTGATGGGACCAAGCAGGGCAAAGGGAAGGATA

	215301	$\tt GTAGTGGGTGGAGTTCAACAGAAGCAACAACGGCAAAAAATGATGCGCCCC$
	215351	${\tt AGTGTTTCTGGAAGTGGAACATCAGACACCGCTTCAAAATTCAAAAGTTA}$
5	215401	${\tt CCTCAACACCAAGCAAGCGTTAGAGAGCATCGGCATTTTGTTTG$
	215451	${\tt CAACGGCGAGGAATGTGGTTACCCTCCTTCCTACTTTCAACCCAACAA}$
	215501	${\tt GGTGAAAAGTGGTCAATATCAACAAAATAACACCTACAACAAGTTAATTG}$
10	215551	${\tt AACCGGAAAGTGCAACAAGTGCAGCGAGCATGACCAACTTGTTAAAC}$
	215601	${\tt ATGTTGTCTAGTAAAAACATCAAACAGAAGTTGGGGAAGGGGGGAACAGC}$
	215651	${\tt AATGCAGGGAAGTTTCAGTGTCCAAGACACCTTCAGCTTTGTTGTTCCTT}$
	215701	${\tt ATTCGGGGAATCATACAAATAGTGGAACAACTGGACCCATTAAAACTGCT}$
15	215751	${\tt TATCCGGTGAAAAAAGATCAAAAATCAACTGTCAAGATCAATTCCTTGAT}$
	215801	${\tt CAACGCTACGCCGTTGAATAGTTATGGGGATTTAAATAATCACACCAAGT}$
	215851	${\tt TAATTTACCCAAATTATTTACTTATTTATTAACCATTGTTACCCAATTTT}$
20	215901	${\tt TCAACCACTTCCCCACTCTATAAATTGTTATTTTTAACAATTTGAACAA}$
	215951	${\tt TTAAATTGCAAAAAATAACTATATTAATGTAAATTTAGCTAACAAGCTTA}$
	216001	${\tt ACTGGTTGTTTTTGAGATGAAAGGGTTTTTAAAACCAAATTTCTCGCTCG$
	216051	${\tt GTGCTTTGTTTTAACTTTAAGCCCCATAGCCACTGCATGCA$
25	216101	${\tt AAACCAGTTAACAACCGCTTTAACTTTAATAGCGAGCAATTAGCTAGGCT}$
	216151	${\tt AAGAAAAGCAAGGGTTAACCACTGAAGAGATGGGGATACTTTGGAAGTTA}$
	216201	${\tt GCTTTGCAAATAACCACCAAAAACCGATCCGTATCTATGCCATTGATACC}$
30	216251	${\tt CCTGAAAAAGCAGTTTTATCTATACAACGCAAATCAGAGATAGAACTTAA}$
	216301	${\tt AGAAGCTAATAAAGCAACTGAGTTTGCCAAAAGCTTAATTCCCATTGGTA}$
	216351	${\tt GTGAGGTGTGGATCTGACCACTAAATAGCTATAGCTATGATCGTGAAGTA}$
	216401	${\tt GCTGCAGTGTTTTCAAAACCAATCCATTGCAACTGCACTTTGAATCGTT}$
35	216451	${\tt TGCAGTTGAAATGGTAGCAAATGGTCATGCTTACCTATTGCTGGTAATG}$
	216501	${\tt ACTTTGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT$
	216551	${\tt GTAGGGATTGAACTAGCTAATGGTTTAAACAATGCTTTTAACAACAGAAA}$
40	216601	${\tt AAACATCTTTAGTTATTTAGAAAACAGTTTTCAATCAATAACAATGGTCT}$
40	216651	${\tt ATCAACAACGCGGTGTTGACCAAAGTTGAACAAGGTATTTAGCTCCTAGT}$
	216701	${\tt AATGATTTTCCTCTACTAAACTGGGGTTGGGATTAACCATCTATGAATT}$
	216751	${\tt GAAACTAAACAATGGCTAACAATAAGAGTGCAATTGAGTTGAAAAACATC}$
45	216801	${\tt GTTGTTGATTTTGGTGAATCAGTTGCGATTGACAACATTAACCTTAGTGT}$
	216851	${\tt TGAAAAACACCAACTAGTTAGCTTACTTGGTCCTAGTGGTTGTGGTAAAA}$
	216901	${\tt CCACTACACTTGCAGTTATTGCAGGACTTATTAAACCAACTAGTGGTCAG}$
50	216951	$\tt GTGTTATTTAATGGTTATGATGTCACCAAAAAACCACCCCAAGAACGTAA$
<i>50</i>	217001	${\tt ACTAGGGCTAGTTTTCAAAACTATGCACTTTATCCGCACATGAATGTGT}$
	217051	${\tt TTGAAAACATTGTTTTCCCCCTCTACAGTGATAACTCGTGAAAACAAGCA}$

	The second secon
	217101 GTTTTGGAAAAAACAGTGTTGCAAACCATGAGATTAACTGTTTGTT
	217151 TACTAGCAACGGTGCATCAGTTCAAGAGATTGATCAGCTCAATAAGTTAT
	217201 TTCATGATAGTATTGAAAAACCCAAACAGATCCAATACCAAATTAATGAC
	217251 CTTAATGTTAGTGTTTTTAAAAACTTAAATGAACTAACTGCAAACCTTAA
	217301 GTTAATACCAAGTAAGCACCAGTTTGCTATTACCAATCTCAACAAACA
10	217351 CTCTAAAACAGATTAATGAACTGGAAGCTGAGTTTAAAACAAAGTGAAAG
	217401 TTACAAAAACAAACCCCAATTAAGAGTGGGGTTGAACACAATGCCAAACT
	217451 CCAAGCAATTAAACAACACTTTAGTTATGAAAAAACAACGGTTAAAAAAAA
	217501 ACTATTTCAAAACTAAAGTGGAACTAAAACAAACCCTTGTTGAAAACCTT
15	217551 AAGTTAGTTAAAAAAGCGATTAGTGAACAAACTAAGTTAATTAA
	217601 TAGTGATTACACTAAGTTAAAGCAATTAAAACGGTTAATTAA
	217651 CTAACCAACTCAAAAAACAATATAAGGTTTTTCTCAATCAGTTAATTAA
	217701 AACTATTCACTTAAAACTGATAAGTTAACTGATACTCAACTTAATGAAAT
20	217751 TGAACAGATTAAAACCAGAATTGTTTCAATAAAACAGTTTATCAACAAAA
	217801 CTGCACTTGAAGTAGCTAACAAACTAGCGATTACCAAGATTTTAACCAAA
	217851 CGCCCTGATAAGATTTCTGGTGGACAACAACAACGCGTAGCAATTGCTAG
25	217901 AGCAATTGTCAGAAGACCTAAACTATTGTTAATGGATGAACCACTCTCTA
	217951 ACTTAGATGCAAAGCTAAGGGTACAGACAAGACAGTGGATCAGACAGTTT
	218001 CAACAGGAGTTACAAATTACCACTGTTTTTGTCACCCATGACCAGGAAGA
	218051 AGCGATGAGTATTAGTGATGTCATTGTTTGTATGTCAACTGGAAAAGTGC
30	218101 AGCAAATCGGCACACCCAGTGAACTTTATTTAAAACCTGCTAATGAGTTT
	218151 GTTGCGCGCTTTTTAGGCACCCCTGAGATGAACATCATTGAATGTAGTGT
	218201 CAAAAACAACCAGTTGTTTTGAAACAACCATCTGTTAGTTA
35	218251 TTAAGCTTAATGTAGAGAAACTCTTAGTTGGGTTTAGGTATGAACAACTA
	218301 GTGGTCACTACTAACAAAAGTAGTTTGCAAGCTAAACTAATTAACATTGA
	218351 AAACTTAGGTAAACACTTAGTTGCTACCATTAGTTTGTTT
	218401 TATCAATGCGCTTAGAATTGAATAGCCACTTAAAAGTAGGTGATAGTTTA
40	218451 AATTTCATTATTAAAGCTAACAACCTCCATTTTTTTGATATTGATACAAA
	218501 ACAACGGATTGAGATTTAACAATGTTTAAGTGGTTATTAAAACATCATAA
	218551 TCAACCTCATAGCCTCCAGTTAGGGTTACTAGACCAACCA
45	218601 GAAAGCCCTTTTTGTTGTTCCTCCCTGCGCTTTTAACAACAATTTTGTTT
	218651 ACCATTATCCCCTTCTTTTTAAGCTTACAGAAGGGTTTTAGTGCTAACAC
	218701 TGATCTGTATGATCTCTCCCCAATCCTTTAGTTTACGAACCTTTCAGC
	218751 ATCTGTTTAGTGAATCTAACTTTGTGTTGGGCTTACGCAATAGTTTTCTC
50	218801 TATTCACTAATCTCTTTACCCTTTAGCATTATCATTGCTATTGTTATTG
	218851 CAGTGCCATAGTATTTGTGTACAAAAATTGTTAAGAGGGTTTTGACAG

	218901	$\tt CCGTGTTTTTTTACCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTATGTAACTTCAGGGGTGGCAATCTCGATTGCCCTAGGGGTGGCAATCTCGATTGCCCTAGGGGTGGCAATCTCGATTGCCCTAGGGGTGGCAATCTCGATTGCCCTAGGGGTGGCAATCTCGATTGCCCTAGGGGTGGCAATCTCGATTGCCCTAGGGGGGGG$
	218951	${\tt TTTGTATATCTTTGATTCTGCCTCTGGTATTTTAAACACGGTGTTTAA}$
5	219001	${\tt TGTCAACACCAAGTGGCTTGATTCAGGTTCACGTGATACATTTAATGCCT}$
	219051	${\tt TGTGGGCTATCTTAATCTTTGGGGTGTGGAAAAACTTGGCATTTAATGTG}$
	219101	$\tt TTGATTATCTCAACAGCAATGTTAAGTGTTAATCCCCAACTTTACAAGGT$
10	219151	${\tt AGCAAGTTTAGATAGTGCCAATCCTGTAAGACAGTTCTTTAAGATTACTC}$
	219201	${\tt TTCCCTCCATCCGTCCTACTTTAATCTTTCTTACTACCCTTTTAATCTTA}$
	219251	$\tt GGGGGGATGCAAGTCTTTCCGCTGGCTTTGTTTGAAAACAAAC$
	219301	${\tt AGCGGTTGCTAATGGGGGGAATAGTATCTTGCTTTACATCTTTCAACAGA}$
15	219351	${\tt TCCAAAGTGGCAATACTAACTTAGCAGGTGCTGCTACTTTAGTGTTGTTT}$
	219401	$\tt GTGTTGGGAGTTTGTTATGGGTTAGTGTTACGTAATGGCTTTTATCTGAT$
	219451	${\tt TGAATGGTTGCAGTGAAAAATTAAACAGCTTTATGTTCAAAAACAACTTA}$
20	219501	$\tt CGCTTTACTAGTTGAATTAATCAACACAAGTTTTACCAACTTGATCTGAGGGGGGGG$
	219551	$\tt CTTAAAAACCCGCTCGATCAAACAAATTGTTTTAACGTTGGTTTTCAAAA$
	219601	${\tt CATTGGTATTGGGGTTATTTGGGTTAATTGTCATCTTTCCCTTTTATCTG}$
	219651	${\tt ATGGTTGTGGTTAGTTTTGCTAGTGATGAAAGAGCATTAGACACAAGAAC}$
25	219701	${\tt CCCAATCCTTTGACCTGATAGTTGAAACTTTGATAACTTTAGTAGGGTGT}$
	219751	${\tt TAAGTGATGGGAAATATCTCAATGCAATAGTTGTCAATACTTTAGTAACG}$
	219801	${\tt GTACTTTCAGTGTTACTAACATTGTTTTTTACCATTTGCATGGGTTATAG}$
30	219851	${\tt TTTTCACTACGGAAGTGAAAAATACAAAAAACTGGTGTGGTTTTTCTTTC$
	219901	${\tt TTAGTGTGTTAATACTGCCTGAGTCTGCGCTTTTAATTGGTCAGTATCGG}$
	219951	${\tt ATTGTAATAGTTGCTAACTGAAATAACCCCAACAGTCCCTTGATTGTTCT}$
	220001	${\tt GGGACTCATTATGCCCTTTGTTAGCAGTGTTTTTAGTGGGTTTATGTACC}$
35	220051	${\tt GTACTAGCTTTGAAGCCATTCCATCTCAATTAAAAGAGTCAGCACTCATT}$
	220101	${\tt GATGGGTGTAATGGCTTTAACTACTTTTTGAAGATTGCTTTACCAATGGT}$
	220151	${\tt GAAATCTACCAGTTGAACAGTGGGGGATTTTAACTGCATTTAGTGCTTGAA}$
40	220201	${\tt ATTCCTATTTATGACCATTACTGTTGTTGGGCAACAGGGTGGATTTAAAC}$
	220251	${\tt ATTAACTTGTGGGTGTTACAACAAGGGGATCTTGGATGCTAACAGTAGTGA}$
	220301	${\tt TGAACAGATCAGAACGCTGTTAAATCTCAAGATGAGTGCAGCGATTCTAG}$
	220351	${\tt CTATCCTTCCGATGTTTATTATCTACTTTTTGTTCCATAAAAGGATTATG}\\$
45	220401	${\tt AATGCCATTAAAAACAGAGCCAACACCATTAAGGGTTAATATGCAAAAGT}$
	220451	${\tt TTAAACAACTGGTTGGTGCAATGCACAGATGGGTAAAACTAGCACTATTA}$
	220501	${\tt GTAATCATTGTGTTATTAGGGATTATCTTTTGTCTGTTTGCCATCTATGA}$
50	220551	${\tt CATTGCGCAAGTGATCATTACCATTATCAATGAAGGGGCACTTTTATAAT}$
	220601	$\tt CTTTGTTATGAAAAAAGGATCAATAACTGAAGCAATTAATGCCATTAAAC$
	220651	${\tt AATTTGATAAGATTGTTATCTTTCACCATGTGCGCCCTGATGGGGATTGT}$

	220701 TTAGGAGCACAACAAGGCTTGTTTCACCTCATTAAAGCTAACTTTAAAAA
	220751 TAAGGAGGTGAAGTGTGTTGGTAATAACAACCACCTGTTTAGCTTTATCA
5	220801 ACATGACATTTACCAACCAAATTGATGAGAGCTTTTTAAAAGAAGCACTT
	220851 GCCATTGTGGTCGATGCTAATTACAAAAACAGGATTGAATTGAGAGAACT
	220901 GTTAGATAAAAACCTGTTTAAAGCAGTGTTAAGGATTGATCACCATCCCA
10	220951 ATGAAGATGATCTAAACACTAGCTTTAACTTTGTTGAAGAAAGCTATGTA
70	221001 GCTTGTTGTGAGCAGATAGTGGAGATGGCCACAGTGGCGAAGTGGACCAT
	221051 ACCACCAGTGGCTGCTACTTTACTATATATGGTATCTATACGGATAGTA
	221101 ATAGATTTCTATATAGTAATACATCATATAGAACACTATACTTAGCAGCA
15	221151 ATACTATATAAAGCTAAAGCTGATATAAGGATAGTACATGATCATTTAAA
	221201 CCATACTAGTTTAGCAGATCTTAAGTTTAAAAAGTATGTTTATAACCACT
	221251 TTAAAACCCAAGGACAAGTGATCTATTTTATCTGTACTAAAAAGATCCAA
20	221301 AAGAGACTAAGAATGACTGCAGATCAATGTGCTAGAGTTAACTTGTTAAG
20	221351 TAACATAGCAGATTACAAGATCTGACTTTTCTTTATTGAACAAGCTAATA
	221401 ATGAGATCAGGATAGACCTGAGGAGTAATGGGATTAATGTCAGAGATATA
	221451 GCCATTAAGTATGGTGGGGGGAGGACATAATAATGCAAGTGGAGCGATCAT
25	221501 TACTAACAAAAAACAAATTAGTGATGTTAGTGATTGTGTGAAAAAAA
	221551 TTGTTTATAATTAAGTTTGTATGCACCAACCAAAGAAAAAACACTGGCTAAG
	221601 AAGTCTTGAGCCTTTCTAACCGCTGCACTTACCCTTGGGGTTATAACAGG
30	221651 TGTAGGTGGTTATTTTCTCTTTAACCAAAATAAGCAACGTAGTAGCGTGA
30	221701 GCAACTTTGCTTACCAACCCAAGCAGTTAAGTGTTAAACACCAACAAGCA
	221751 GTTGATGAAACCTTAACCCCTTGGACTTGAAACAATAACAACTTCTCTTC
	221801 ACTAAAGATTACTGGAGAGAACCCAGGATCATTTGGATTAGTAAGAAGCC
35	221851 AAAATGACAACTTAAATATTTCAAGTGTTACAAAGAATTCTAGTGATGAT
	221901 AATCTCAAGTATCTCAATGCTGTTGAGAAATACCTTGATGGTCAGCAAAA
	221951 CTTTGCAATCAGAAGGTATGATAACAACGGTAGAGCTTTATATGATATTA
40	222001 ACTTAGCAAAAATGGAAAACCCCTCAACGGTGCAAAGGGGTTTAAATGGC
4 0	222051 GAGCCTATCTTTGATCCTTTTAAAGGCTTTGGTTTAACTGGTAATGCCCC
	222101 TACTGATTGGAATGAGATCAAAGGTAAAGTTCCAGTAGAAGTAGTTCAAT
	222151 CCCCCCATTCCCCCAACCTCTATTTTGTGTTACTAGTGCCTAAGGTGGCA
45	222201 TTAGAGTATCACAACCTGAATAACCAAGTAGTCAAAGAGAGTTTGGAAGT
	222251 GAAAGCAACCCAATCATCCTTCAACCCCCACCCAAAGGTTGCAAAAAGATA
	222301 GTCCAGTGAAGGATTCAAGTAAACAAGGGGAGAAACTCAGTGAAACAACT
	222351 GCTTCATCCATGAGTAGTGGTATGGCTACATCCACTCGAGCCAAGGCCCT
50	222401 CAAAGTGGAGGGGAAAGGGGGAGTCAAAGTGATTCACTTTTAAAAAACC
	222451 ACTTTGCTAAAAAGCCACTAAAGCATAAGAACAGTAGTGGGGAGGTGAAG

	222501	${\tt TTAGAGGCAGAGAAGGAGTTTACTGAGGCCTGAAAACCATTGTTGACTAC}$
	222551	${\tt TGATCAAATAGCAAGAGAGAGAGGGGGGGGGGGGGGGGG$
5	222601	${\tt ATGATGCACCCTACAGTGAAAACCATACTGCCTTTGGACTTGTTGATCAC}$
	222651	${\tt ATCGATCCTAAAAAGATGGTTGAAAACTACCCACCAAGTTGAAAGACCCC}$
	222701	${\tt GAAGTGAAACCACCATGGGATCTGGGATTACAACGCAAGAAACCTCTTGT}$
10	222751	${\tt TACAAACAACAGGGTTCTTTAACCCAAGAAGACACCCGGAGTGGTTTGAT}$
	222801	${\tt GAAGGACAAGCTAAGGCAGATAACACTAGCCCTGGCTTTAAGGTAGGGGA}$
	222851	${\tt TACTGATCACAAAAAAGACGGGTTTAAAAAAAACTCTTCTTCTCCAATAG}$
	222901	${\tt CTTTACCATTTGAAGCATACTTTGCTAACATTGGTAACATTGGTTGCTATT}$
15	222951	${\tt GGTAACTCGGTATTTATCTTTGGTGGTAATGGTCATGCTACTAAGATGTT}$
	223001	${\tt TACCACCAATCCCTTAAGTATTGGGGTATTTAGGATTAAATACACTGATA}$
	223051	${\tt ACTTTAGTAAGTCATCAGTAACAGGTTGACCATATGCAGTGTTATTTGGG}$
20	223101	$\tt GGATTAATTAATCCCCAAACCAATGGCTTGAAAGATCTTCCCCTTGGTAC$
	223151	${\tt CAACAGGTGGTTTGAATATGTACCAAGAATGGCAGTTAGTGGGGTGAAAT}$
	223201	$\tt GGGTTGGTAATCAACTAGTGTTAGCAGGAACACTAACAATGGGTGATACA$
	223251	${\tt GCTACTGTACCTAGGTTAAAGTATGATCAACTAGAAAAACACTTAAACCT}$
25	223301	${\tt AGTTGCTCAAGGCCAGGGACTATTGAGAGAAGACTTGCAGATCTTCACTC}$
	223351	${\tt CCTATGGGTGAGCTAATCGTCCTGATATTCCTGTAGGAGCATGACTCCAA}$
	223401	${\tt GATGAAATGGGCAGTAAATTTGGTCCCCATTACTTCTTAAATAACCCTGA}$
30	223451	${\tt TATCCAGGACAATGTTAATAATGATACGGTTGAAGCATTAATCAGTAGTT}$
	223501	${\tt ACAAAAACACTGATAAGTTAAAACACGTTTATCCTTATCGATACAGTGGT}$
	223551	${\tt TTGTATGCTTGACAGTTATTTAACTGGTCTAACAAACTAACCAACACTCC}$
	223601	${\tt CCTATCAGCTAACTTTGTTAATGAAAACAGTTATGCACCAAACAGTTTGT}$
35	223651	${\tt TTGCTGCTATCTTAAATGAAGATCTGTTAACAGGGCTAAGTGATAAGATT}$
	223701	${\tt TTCTATGGTAAGGAGAATGAGTTTGCTGAAAATGAAGCAGATAGGTTTAA}$
	223751	${\tt CCAACTTTTAAGTTTAAATCCTAATCCTAACACTAACTGAGCTAGGTATT}$
40	223801	${\tt TAAACGTAGTACAACGTTTTACTACCGGACCTAACCTTGATAGTTCTACC}$
70	223851	${\tt TTCGATCAGTTCTTAGACTTTCTCCCCTGAATCGGCAATGGTAAACCCTT}$
	223901	${\tt TTCCAACTCCCCTTCCACTTCCGCTTCCTCTTCTACCCCCCTCC}$
	223951	${\tt CCACTTTTCTAACATCAATGTTGGGGTTAAATCAATGATCACTCAACAT}$
4 5	224001	${\tt TTAAATAAAGAAAACACCCGGTGGGTGTTTATACCTAACTTTTCACCTGA}$
	224051	${\tt CATCTGAACAGGAGCAGGGTATCGCGTTCAAAGTGCTAATCAGAAAAACG}$
	224101	${\tt GCATTCCTTTTGAACAGGTGAAACCTAGCAATAATAGTACCCCCTTTGAT}$
50	224151	${\tt CCCAATTCAGATGATAATAAAGTCACACCATCAGGTGGCTCCTCCAAACC}$
50	224201	${\tt AACCACCTATCCTGCTTTACCCAACAGTATCAGTCCCACCAGTGACTGGA}$
	224251	${\tt TCAATGCATTGACTTCACTAATAAGAATAACCCGCAGCGCAATCAACTG}$

	224301	TTGCTCAGAAGCTTACTAGGAACTATTCCGGTCTTGATCAATAAGAGTGG
5	224351	GGATAGTAATGATCAATTTAACAAGGATAGTGAGCAGAAATGGGATAAAA
	224401	CTGAGACAAATGAGGGTAATTTACCTGGGTTTGGGGAGGTGAATGGGTTG
	224451	TATAATGCCGCATTACTCCATACCTATGGTTTTTTTGGCACCAATACCAA
	224501	$\tt CTCTACTGATCCTAAGATAGGTTTTAAAGCTGATAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGT$
10	224551	${\tt GTAGTACACTAGTAGGTAGTGGGTTAAACTGAACTAGTCAGGATGTAGGT}$
10	224601	${\tt AATCTTGTTGTAATCAATGACACCAGCTTTGGGTTTCAACTTGGTGGTTG}$
	224651	${\tt GTTTATTACCTTCACTGACTTTATCAGACCAAGAACTGGTTATCTAGGGA}$
	224701	${\tt TTACCTTAAGTAGCTTACAAGATCAAACCATTATCTGAGCAGATCAGCCT}$
15	224751	${\tt TGAACTAGTTTCAAAGGCAGTTATCTAGACAGTGATGGTACCCCTAAATC}$
	224801	${\tt ACTGTGAGATCCAACTGCTTTAAAATCCCTTCCAAATAGTTCAACTACCT}$
	224851	${\tt ATGATACCAATCCTACCCTCTCACCCTCCTTCCAACTCTACCAACCCAAC}$
	224901	${\tt AAGGTGAAGGCTTACCAAACCACTAACACCTACAACAAGTTAATTGAACC}$
20	224951	${\tt AGTTGATGCAACAAGTGCAGCAACTAACATGACCAGTTTGTTAAAACTCC}$
	225001	${\tt TAACAACTAAAAACATCAAAGCGAAATTGGGGAAGGGAA$
	225051	${\tt CAGGGAAATAATAATGGAGGGGGTGTTAGTCAAACGATTAACACCATCAC}$
25	225101	${\tt CACTACGGGAAATATTAGTGAAGGTCTAAAAGAAGAAACTAGTATTCAAG}$
	225151	CAGAAACACTTAAAAAGTTCTTTGATAGTAAACAAAACA
	225201	${\tt ATAGGGATAGGTGATAGTACATTTACCAAGATGGATGGTAAACTAACT$
	225251	${\tt CGTAGTATCTACTCCCCTTGTTAACCTTATCAATGGCCAGGGAGCAACTA}$
30	225301	GTGATAGTGATACTGAAAAAATTAGCTTTAAACCTGGTAACCAGATTGAC
	225351	TTTAATAGGTTATTCACCTTACCAGTAACTGAACTATTTGATCCTAACAC
	225401	GATGTTTGTCTATGACCAGTATGTACCACTATTGGTTAACTTACCTAGTG
35	225451	GCTTTGATCAAGCTTCAATCCGCTTAAAGGTAATTAGTTACTCAGTAGAA
	225501	AACCAAACCTTAGGAGTTAGATTAGAGTTCAAAGATCCTCAAACCCAACA
	225551	GTTTATCCCGGTACTAAATGCATCAAGTACAGGTCCCCAAACTGTCTTTC
	225601	AACCCTTTAACCAGTGGGCAGACTATGTCTTACCTTTGATTGTAACTGTT
4 0	225651	CCTATAGTAGTGATTATCCTTAGTGTTACTTTGGGATTAACGATTGGAAT
	225701	TCCAATGCACAGAAACAAAAAGGCATTACAAGCAGGGTTTGATCTTTCTA
45	225751	ACAAAAAGGTTGATGTCTTGACCAAAGCAGTTGGTAGTGTCTTTAAAGAG
		ATCATTAACAGAACAGGGATCTCTAACGCTCCTAAGAAGTTAAAACAAGC
	225851	TACCCCAACCAAACCAACTCCTAAAACCCCCACCAAAACCTCCAGTAAAAC
50	225901	AATAAGATGAAAACAATGAGAAAACAGATTTATAAAAAAGCATACTGGTT
		ACTATTACCCTTTCTACCATTAGCACTAGCCAATACCTTCCTT
		AGGATAGTAAGAATGTTACTGCTTACACCCCCTTCGCCACCCCCATCACC
	226051	GATTCTAAAAGTGATCTGGTTAGTTTGGCACAACTTGATTCTTCTTATCA

	226101	${\tt AATCGCTGACCAAACCATCCATAACACCAACCTGTTTGTGTTCAAGT}$
5	226151	${\tt CTAGGGATGTAAAAGTTAAGTATGAGTCAAGTGGCAGTAACAACATTAGT}$
	226201	${\tt TTTGATTCAACTAGTCAAGGTGAAAAACCCTCCTATGTGGTCGAGTTTAC}$
	226251	${\tt TAACTCTACCAACATTGGCATCAAGTGAACGATGGTGAAAAAGTATCAGT}$
	226301	${\tt TAGATGTACCGAATGTAAGTAGTGACCAAGTACTGAAAAATTTA}$
10	226351	ATTCTTGAACAACCTTTGACTAAGTATACCTTAAACAGTAGTTTGGCCAA
	226401	${\tt AGAGAAGGGCAAAGGGAGGTACATCTGGGTAGTGGGCAAGCAA$
	226451	ATCAGTGAACCAGTCAACGCAACCAACATGACCTAAACAACAATCCCAGT
	226501	${\tt CCCAATGCTTCAACTGGGTTTAAACTCACTACCGGCAATGCATATAGAAA}$
15	226551	${\tt ACTAAGTGAGTCCTGACCAATTTATGAACCAATTGATGGGACCAAGCAGG}$
	226601	${\tt GCAAAGGGAAGGATAGTAGTGGGTGGAGTTCAACTGAAGAAAACGAAGCT}$
	226651	${\tt AAAAATGATGCGCCCAGTGTTTCTGGAGGGGGATCATCTTCTGGAACATT}$
20	226701	${\tt TAATAAATACCTCAACACCAAGCAAGCGTTAGAGAGCATCGGTATCTTGT}$
	226751	${\tt TTGATGATCAAACCCCAAGAAATGTTATCACCCAACTCTATTATGCTTCT}$
	226801	${\tt ACTAGCAAGCTAGCAGTCACCAACAACCACATTGTCGTGATGGGTAACAG}$
	226851	$\tt CTTTCTACCCAGCATGTGGTACTGGGTGGTGGAGCGGAGTGCACAGGAAA$
25	226901	ATGCAAGTAACAAACCCACCTGGTTTGCTAATACCAATTTAGACTGAGGA
	226951	GAAGACAAAAAAAAATTTGTTGAGAACCAGTTGGGGTATAAGGAAAC
	227001	TACCAGTACCAATTCCCACAACTTCCAAATCTTTCACCCAACCTG
30	227051	CATATCTGATCAGTGGCATTGACAGTGTCAATGATCAAATCATCTTCAGT
	227101	$\tt GGCTTTAAAGCGGGAGTGTGGGGTATGATAGTAGTAGTAGTAGTAGTAGTA$
•	227151	TAGTAGTAGTACCAAAGACCAAGCACTTGCTTGATCAACAACAACTA
	227201	GCTTAGATAGTAAAACGGGGTATAAGGATCTAGTGACCAACGACACGGGG
35	227251	$\tt CTAAATGGTCCGATCAATGGGAGTTTTTCAATCCAAGACACCTTCAGCTT$
	227301	${\tt TGTTGTTCCTTATTCGGGGAATCATACAAATAATGGAACAACTGGACCCA}$
	227351	TTAAAACTGCTTATCCAGTGAAAAAAGATCAAAAATCAACTGTCAAGATC
40	227401	AATTCTTTGATTAACGCTACGCCCTTGAATAGTTATGGGGATGAGGGGAT
	227451	TGGGGTGTTTGATGCGTTAGGTTTAAACTATAACTTTAAATCTAACCAAG
	227501	AACGTTTACCTTCCAGAACTGATCAGATCTTTGTTTATGGGATTGTCTCC
4 5	227551	CCTAATGAATTGCGAAGTGCTAAAAGTTCTGCTGATTCAACTGGTAGTGA
	227601	TACAAAGGTAAACTGATCAAACACCCAATCACGTTACCTCCCTGTTCCCT
	227651	ATAACTATTCAGAAGGGATCATTGATGCAGATGGATTTAAGCGTCCTGAA
	227701	AACAGGGGTGCTAGTGTAACTACCTTCTCAGGGCTTAAATCAATTGCCCC
50	227751	${\tt TGATGGTTTTGCTAACTCAATAGCTAACTTCTCAGTTGGGTTAAAAGCAG}$
50	227801	GAATTGATCCTAACCCAGTGATGAGTGGTAAGAAAGCTAACTATGGAGCG
	227851	$\tt GTTGTGTTAACACGGGGGGGGTGTTGTTAGATTAAACTTTAACCCTGGTAA$

	227901	${\tt TGATTCATTGCTTTCAACAACTGATAACAATATAGCACCTATCTCCTTCT}$
,	227951	${\tt CATTTACTCCGTTCACAGCTGCTGAGAGTGCGGTGGATCTCACTTC}$
	228001	${\tt AAAGAAGTTACCTATAACCAAGAATCAGGGTTATGGAGTTATATCTTTGA}$
	228051	${\tt CAGCTCCTTAAAACCAAGCCATGATGGTAAACAAACTCCTGTCACTGATA}$
	228101	${\tt ACATGGGCTTTAGTGTTATCACTGTCTCAAGaACTGGCATTGAACTAAAC}$
10	228151	${\tt CAAGACCAAGCTACTACAACTCTTGATGTAGCACCTAGTGCACTAGCAGT}$
	228201	${\tt GCAATCAGGGATCCAATCTACCACCCAAACCCTAACTGGAGTACTCCCAC}$
	228251	${\tt TTAGTGAGGAATTCAGTGCAGTTATTGCTAAAGATAGTGATCAAAATAAG}$
	228301	${\tt ATTGATATCTATAAAAACAACAACGGGTTGTTTGAAATTGATACCCAACT}$
15	228351	${\tt AAGTAATAGTGTTGCCACCAACAACGGTGGGTTAGCACCTAGTTACACAG}$
	228401	${\tt AAAACAGGGTTGATGCATGGGGTAAAGTTGAGTTTGCTGATAACAGTGTA}$
	228451	${\tt TTGCAAGCAAGAAACCTAGTTGATAAAACTGTTGATGAGATCATCAATAC}$
20	228501	$\tt CCCTGAAATCTTAAACTCCTTCTTTAGATTCACCCCTGCTTTTGAAGATC$
	228551	${\tt AAAAAGCTACCCTTGTTGCTACTAAGCAAAGTGATACATCACTTAGTGTC}$
	228601	TCACCAAGGATCCAGLTCTTAGATGGTAATTTCTATGATCTTAACTCTAC
	228651	CATCGCTGGGGTACCTTTAAACATTGGTTTCCCTTCAAGAGTGTTTGCTG
25	228701	GGTTTGCAGCACTCCCTGCATGGGTGATCCCTGTATCAGTAGGTTCTTCA
	228751	GTTGGGATCTTGTTATCTTGTTAGTCTTAGGACTTGGGATTGGGATCCC
	228801	AATGTACAGGGTAAGAAAACTCCAAGATGCATCGTTTGTTAATGTCTTTA
30	228851	AAAAGGTTGATACACTCACAACTGCTGTCGGTAGTGTGTACAAAAAGATT
30	228901	ATTACCCAAACTGGTGTGGTGAAAAAAGCACCTAGTGCATTGAAAGCTGC
	228951	TAATCCTAGTGTTAAAAAACCTGCTGCTTTTTTAAAACCACCTGTTCAAC
	229001	CACCAAGTAAACCTGAAGGGGAACAAAAAGCTGTTGAAGTTAAGTCAGAA
35	229051	GAAACCAAAAGTTAGTTTTTAACCTTTCAATAACCTAAAACACAATCTTT
	229101	AAAACAAGGTTGTGTTTTTTGTTTTTTGTCACTTTCACTAAACTTGCA
	229151	ATTTAGAGAGTGGATATGAAAAGAACAGTTAAAAAAATAAAACCTGACCA
40		CTTGTTTAATAAAAAGCAGTGGCACTTACTGAGTGAAGAGATCAGTGATA
40	229251	ACCCAATGATTAAGCGTTATTGACTCAAACAACAAAAGCGTCAGCTTGCC
	229301	AAACTAAAAAACGCCGTTATTTTAAAAATTAACTATGTATTCTACTTTA
4 5	229351	AGACAATATAAACCATTGAAAAGAAAGAAATGGTTAAACAAGATCTCAAA
	229401	ACGGAAGTTAAAACAACTTTATAACAAAGCTTATTAGTTTTGTTTTTTAT
	229451	TTTTACTAGTGCCTAAGGTGGTATTAGAGTACCACAAGCTCAGTAAGGAT
50		GTAGTCAAAGAGAGTTTGGAAGTGGAAGCAACTGATTCTTTTGATCCCAC
	229551	. CCAAAGGTTGCAAAAAGATAGTCCAATGAAGGATTCAAGTAAACAAGGGG
		AGAAACTCAGTGAAACAACTGCTTCATCCATGAGTGGTATGGCTACATCT
	229651	CCTCGCAAGGCCCTTAAGATAGAGGTGGAGAAAGGTTCTTCAGGGTCTGA

	229/01	CACCICACCAAAICCGACIIIGCIAAAAAGCCACIGAAACAIAAAAA
5	229751	ATAGTGGGACAGAGGTGAAGTTGGATGCACAGAAGGATTTTGCCGGAGAG
	229801	AAGGCCTGAAAGCCATTGTTGACTACTGATCAAATAGCAAGAGAGAAGGC
	229851	GATGGGGGCGACTTAGACTTTCTCCCCTGAATCGGCAACAACCAAACCCTT
	229901	CTCCAACTCCCACACTGCTTCCCTTTCTGTTAGTTCAAATACCCCCCTCC
10	229951	$\tt CCACTTTTCTAACATCAATGTTGGGGTTAAATCAATGATCACTCAACACCACCACCACCACCACCACCACCACCACC$
	230001	${\tt TTAAACAAAGAGAACACCCGGTGGGTGTTTACCCCTAACTCTTCACCTGAAGAGAAGAGAACACCCGGTGGGTG$
	230051	${\tt CATCTGAACTGGGGCTGGGTATCGCAAACAAGGTAACAATAATGGCATCGCAACAAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAAACAAGGTAACAATAATGGCATCGCAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCGCAACAAGGTAACAAGGTAACAATAATGGCAATCGCAACAAGGTAACAATAATGGCAATCGCAACAAGGTAACAATAATGGCAATCGCAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAATGGCAATCAAGGTAACAAGGTAACAATAAATGGCAATCAAGGTAACAAGGTAACAAGGTAACAATAAATGGCAATCAAGAAGGTAACAAGAAGAAGGTAACAAGAAGGTAACAAGAAGAAGGTAAAAGAAGAAGAAGAAGAAGAAGAAGAAG$
	230101	$\tt CTTTTGATAATGTGAAACCTAGCAATAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCAATAGTAGTAGTACCCCCTTTAATCCCCAATAGTAGTAGTACCCCCTTTAATCCCCAATAGTAGTAGTAGTACCCCCTTTAATCCCCAATAGTAGTAGTAGTACCCCCTTTAATCCCCAATAGTAGTAGTACCCCCTTTAATCCCCAATAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTA$
15	230151	TCAGATGATAATAAAGTCACTTCAGGTGGCTCCTCCAAACCAACC
	230201	CACCCATTTACCCAACAGTATCAGTCCCACCAGTGACTGAAGCAATGCAT
	230251	TGACTTTCACTAATAAGAATAACCCGCAACGAAATCAACTGTTGCTCAGA
20	230301	${\tt AGCTTACTAGGAACTATCCCGGTATTGATCAATAAGAGTGGAACGGGAGAGGGAGAGGGAGAGGGAACGGGAGAGGGAACGGAACGGAACGGAACGGAACGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAGAACAAC$
20	230351	TCAATTTAACAAGGATAGTGAGCAAAAATGAAACGAAAC
	230401	GAGGCAACCTCCCGGGGCTTGGGGAGGTGAATGGCGGTTTTTATCAACTA
	230451	${\tt AATAAAAACTTATTAGCTTATTTTATTAGGTTTTTACTTATTTAATAGTTTATTAATAGTTTATTAATAGTTTATTA$
25	230501	TAAAAAGTTTTGAATTTTTCTTAGTTTTTTTTTTTTTTT
	230551	AACACTAGGCTTTACCTTTATTTAATTAATAAAACCTTTACCCCTATTAC
	230601	CAAACCATCCATAACACCAACTTGTTTGTTGTTCAAGTCCAAGGATGT
20	230651	GAAGCTTACATATAGTTCAAGTGGCAGTAACAACATTAGTTTTGATTCAA
30	230701	CTAACAACAACCCTCCTATGTGGTCGAATTTACTAATTCCACCAATGTT
	230751	GGCATCAAGTGAACGATGGTGAAAAAGTATCAGTTAGATGTACCGAATGT
	230801	TTCTAGCAACATGAACGATGTACTGAAAAATTTAATTCTTGAACAACCCC
35	230851	${\tt TTACCAAGTATACGCTTAATAGTAGTTTGGCTAAAGAGAAGGGTAAGACAGAGAGAG$
	230901	CAAGTAGCGGTACATCTGGGTAGTGGGCAAGCAACTAATTGACGATCGAT
	230951	GCGCAACTCCATCAGTCTAAACAACAATCCCAGCCCCAATGCTTCAACTC
	231001	${\tt GGTTTAAATTAGACAAAGGCAATGCATATAGAAAACTAAGTGAATCCTGAAGTGAATCCTGAAGTGAAAACTAAGTGAATCCTGAAGTGAAAACTAAGTGAATCCTGAAGTGAAAACTAAGTGAATCCTGAAGTGAAAACTAAGTGAAAACTAAGTGAATCCTGAAGTGAAAACTAAGTGAAAAACTAAGTGAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAAACTAAGTGAAATCCTGAAGTGAAATCCTGAAGTGAAAACTAAGTGAAAACTAAGTGAAATCCTGAAGTGAAAACTAAGTGAAAACTAAGTGAAAACTAAGTGAAAAACTAAGTGAAAAACTAAGTGAAAAAAAA$
1 0	231051	CCAATTTACCAACCAATTGATGGGACCAAGCAGGGCAAAGGGAAGGATCA
	231101	AGCGAATTGGAGTTCAACAGAAGAATCAACGGCAGCTAGTGATGCGCCCC
45	231151	TAAGTACAGGAGGGGATCATCTTCTGGAACATTTAATAAATA
	231201	ACCAAGCAAGCGTTGGAAAGCATCGGTATCTTGTTTGATGGGGATGGAAT
	231251	GAGGAATGTGGTTAGCCTCCTTCCTCTACTTTCAACCCAACAAGGTGAAA
	231301	${\tt AGTGGTCAATACCAAACCACCAACACCTACAACAGGTTAATTGAACCTGAACCACCAACACCTACAACAGGTTAATTGAACCTGAACACACCTACAACAGGTTAATTGAACCTGAACACACAC$
	231351	CAAGTGACAATCAAATAGTGATTTGACTAACATGACCAGCTTGTTAAAA
50	231401	TCCTAACAACTAAAAACATCAAAGCGAAATTGGGGAAGGGAACAGCAATC
	231451	CAGGGAAGCAAGACACCTTTTCCTTCGTTGTCCCTTATTCAGATAGTCAT

	231501 AGTAATCAAACTTCATCAGGAACCATTAAAACGGCTTATCCTGTGAAAAG
r	${\tt 231551} \ \ {\tt TGATCAAAAATCATCAGTAGCGATCAATTCCTTGATCAACGCTACGCCGT}$
	${\tt 231601} \ \ {\tt TGAATAGTTATGGGACAATAAAAAACTACCTGTCAACAAAAAAACAGGTA}$
	${\tt 231651} \ \ {\tt GTTAATTATTTATCCAATTAGTAAGTTGCCTATGGGTTAACAAAGAGATG}$
	231701 CACTTAATATACGACCAACCTAATTTATTTGAAAGCGTATCTTTTATTAA
0	${\tt 231751} \ \ {\tt TGAATGTGGAACTAAGCAACTATTATTTAAACACAGCAAAAGCGTGTAAT}$
•	${\tt 231801\ TTTTTATTAAAAGCGATTTAGTGGGAACAGAAATAAAAGATTAACATGAC}$
	231851 TTTATACAACTTCTGTTCCCATCTACTAAATTGCACAAAAAAAGCTTTTT
	231901 GACAAAAAATAGTTATTTTTTTTTGTAATTGCTTAATTTAATAACAAACTAA
15	231951 ACTATTATTGTTACTTAATGATTTTTTGATCTATATAGCACAATTAATAT
	232001 AACTTCATGATTGATCAAAACAAGTTAATTACTAAGTGAAAAAAAGCATT
	232051 TGCAAAAGCTAAGAATTTAACTACTTTAGTTAATCTTAAGAACACTTTAC
20	232101 ACAACAGTGATTTAAAGCCATTACTCCAAAAGATTAAAACCGCTACAAAA
	232151 CTAAGTGAAAAAGTAGTTTAGGTAAGCTTTATCAATCACTTGATATTCA
	232201 ACTAACTGATCTGTTAACTAGTTACAAAAAAACCTTTGAAATAAACC
	232251 AAGTTAGTCAAAAACCTTCACTTGATGTGATGCTACCAGCAACAGAGTTT
25	232301 ACCAATGGTTCTAATAACGCACTATATCAGGTTATTGATAATTTAGTTGA
	232351 ATACTTTAAAAGCTTTTTATTCACAATTAATTTTGATAGTGAACTGACCA
	232401 GTATTAGTGACTGTTTTGATCTTTTAAATATCCCTAAAGATCATTCCAGT
30	232451 AGGAATGAATCTGATTCTTTTTATATCGATAAAACCAGTTTATTGAGAAC
<i>50</i>	232501 CCATTGTACTGCTACCACGCTAAAAGCAGTCAGAACTTCTAAAAAAACTA
	232551 ATAATCCTGATATCAGGGTTGTCTCTTTAGGAGCGGTTTTTCGTAATGAT
	232601 AGTGATGATGCCACCCACTCCCATCAGTTTACCCAACTTGATTTTATGTG
35	232651 GATTAAAAAAGGGCTTTCATTAGCTAATTTAAAGTGGTTTATTAACAATA
	232701 TGATCACCCATTTCTTTGGGGAAAATACTTTTACTAGGTTTAGACTATCC
	232751 CACTTCCCATTCACTGAACCCTCGTTTGAAATTGACATTAGGTGTTGGTT
4 0	232801 ATGTCAAAATGGTTGTTCTATTTGTAAGCAAACCAAGTGAATTGAGATCT
40	232851 TAGGGGCGGGATCATCCATCCCCAGGTGATGAATAACATGGGAATTGGG
	232901 GATACTGAAAATATTACTGGGATAGCAGCAGGAATTGGGATTGAACGCTT
4 5	232951 AGCAATGTTAAAGTATGGGATTGATGATATCCGTGATTTTTATGATAACA
	233001 ACTTTAAGTTTTTAACCCAGTTTACTGACTAAAATATGTTGATATCAAAA
	233051 AAAACACTTGGCGTTTTAATCCCTGACATCTTTAGTTTTTCTAATGATCA
50	233101 AATTGCCCAAAAGTTAGAACAAATGGGGATTGAAGTGGAATCAATTAAGC
	233151 AGTTTAACAGCCCTGATTACCTCCAACTTGCAAAGGTTGTATCAATCCAA
	233201 CCCCATCCCCATGACAACAAGCTTTTTATCTGTGAATTACAAATTGATAA
	233251 AAACAAGTTTATTAATGTTGTTTCCAATGCTAATAACATTAACAATCCTG

	233301	ATAATATCAACAAGTTTGTCATTGTTGCAAAAAAAGGAACTGAGTTACTC
5	233351	${\tt AACGGGTTAATTGTTAAAACCCAAAATATTAAAGGGATCATTTCAGAAGG}$
	233401	${\tt GATTTTATGTAGCTATATTGACATTAACCCCTTCAGTAGACAGATCATTG}$
	233451	${\tt AAAAAACAGAAGTTGCTGATGCGATTATCATTGATCATGTTAGCAATGAT}$
	233501	${\tt CATGACTGAAACCAATACCTCTCGTTTTTAAGTTTGGATGATGTTTTTTTT$
10	233551	${\tt TGATGTTAAAACCCCAACTAACAGAGCAGATCTTCATAGCTTAATCTTTT}$
	233601	${\tt TAGCAAAAGAACTTGGGGTACTTTTGAAAACCAAAACCTTTTTAAAACAA}$
	233651	${\tt AAAAGTAGTGTTGATAACCATGACTTTTTAAGTTTCCCCTAAATTTAAA}$
	233701	${\tt AAACAAGTTAAAAGCGAATTATTTTGGCGGTTTGTTCTTAAGACAAATTA}$
15	233751	${\tt ACCAACATAGTTCACCTTGAACAGTTAAAGGACTGTTAATTAA$
	233801	${\tt ATCAAACCAGTTAACTATTATGTTGATAAAGCTAACTTAGTAACAGTGTT}$
	233851	${\tt CACCGCTCAGCCAATCCATTGTCATGATGCAGATAGAATTGTTGGTAACA}$
20	233901	${\tt TTGAACTTAAACAAGCAACCCATAATGAAACTTTTGTTGGACTTGATGAC}$
	233951	${\tt AAGCAATATGAGATTGAACCAGGGGATATTGTTTTTTGTGATGAGAAGGG}$
	234001	${\tt CATTATTGCACTGGTAGGGATCATTGGTTCAAAGCGCACAATGGTCCAAC}$
	234051	$\tt CTACAACAACTAACATCTTTTTTGAAGTTGTTAACTGTAACAGTGAAACC$
25	234101	${\tt ATTAAACAAACTGCCAAGCGCTTTTTGATCAATAACTTTGCCAGTAAGTT}$
	234151	${\tt TATGGTTAAACCGATTAGCTTATTAGCTACTGATAACTGTTTAAACTACT}$
	234201	${\tt TACAAAACAGTTTACTAACCACTGATAACATTGGCAAAATTAGCCACTTT}$
30	234251	${\tt TCAAGTTCGCTTAAAGTTGAACCATTTAGTAAAAAGCTCACAGTGAATTT}$
	234301	${\tt CCATAAGATACGCCAACTAATTGGCATTGAAAAAAAGGAACTAACT$
	234351	AAACCATTAAAAAAAGCCTCAGTCAACTAGGGTTTAAAGTTGACAACCAA
	234401	$\tt CTTCTCAAAATCCCCAGTTACAGACAAGACATTAATACCTGACAAGACAT$
35	234451	${\tt TAGTGAAGATTGTGAAGTTAATTGATATCAATAAGTTAAAACCAATTG}$
	234501	${\tt GGATCACTAGTAGTTTTAACTTTGAAAAGTCCAGTTACTTTAACACTTTT}$
	234551	AATGCTTTAACAAAACTAAGAAAAAAGCTACAAACACTTGGTTTTCACAA
4 0	234601	${\tt CGTTATTACCTACCAGTTAACTGATCAAAAAAGTGCAAAAACTTTTAATT}$
	234651	${\tt TGTTTAACTTAGAAAATTTCATCACCATTAAAAACCCAGTGTCCCAAAAC}$
	234701	${\tt CATTCTGTAATGCGTGTTAGCTTAATTGATTCACTGTTAAAAGTGCTAAA}$
45	234751	${\tt AACCAATAACAACTATAAGAATGAACTGGTGAACATCTTTGAGTTTTCCT}$
	234801	${\tt TTATTAAAACCCAAAACAATAGTGAACTGCACCTGGCAGTATTATGAGTT}$
	234851	GAAAAACTGTTTACTTCTAGTTTCAATCCTATGCAAGGGATAAGCAATGA
	234901	${\tt TGTTTTACTATGAAGGGATTAGCAAAACTCATTGTTGCTAACTTAGGGT}$
50	234951	${\tt TTAGTTGTGACCTTGATGATGATGACTATTTTGTTAATAAT}$
	235001	${\tt CAAAGTTTAAAAATAGTAGTTTTTAACGAACAGATCGGTTTTATTGGGCT}$
	235051	${\tt AATTAAAGAATCATTGTTAAATAACTATGATCTGAACAATAAACCCATTT}$

			ATTGTCTTGAAATCAACTTAGATAGGATGCTCTCTTCTCTAAACAGGATT
			GAAAAAACTACCTTGGTTACAGTAAACTACAACCTGTTTGCAAGGaTCT
5		TACCTTTAGTTTTACCAACCCTGCTAGTCACTTTGATCAGTTTGCTAACA	
			TGATCAAAAGGATAACTGGCATTGAAAGTTGAAAGTTAATTAGTGTCTTT
			GAAACTATGCAAAACAACCAACTGATCACTAAGTACACCGTTCGTT
1	0		TCTGAAAAATGATGCTAACAAACCACTAACTAACCAAACAATTGAACTTA
	•		TCACTAATAACTTAAAACTCCAGTGTGAAAAACTAAAAATTAAATTAGAT
			ATTTAGAATTACTTATTACTATCAAGATAGTTACCAACTATTTTGTTAGT
			AAAACTTAATACAATTGGCACAAAACGCAAAACACCCTTCTAAAAAAAGAA
	15		CAAAAACCACTCGTTAATGAACAGATTGCTTTCAATCAGTTCACTTTAAT
			TGATGAAAACAGTACTAATTTAGGGATAGTTAAGATGGAAAACGCTTTAA
		235651	${\tt AGTTAGCACAAGAAAAACAGTTAGATCTAGTTCTAATTGCTCCAAACCCA}$
	00	235701	${\tt ACCAAACCGATCGTTAAGTTGTTGGACTTTGGCAGATATACCTATGATTT}$
	20	235751	AAAGCGTAAGAAAAGACAAGCCAAGAAAAACCAAACAATCATCCAAACCA
		235801	${\tt AAGAAGTTGTTGTCAAACCAACGATTGCTAAACATGATTTAGAATTTAGA}$
		235851	${\tt GCAAAACAGAGTAAGAATTGGATAGAAAAAGGTCATCATGTCAAGTTTAT}$
	25	235901	${\tt AGTCCGTGCCTTTGGCAGGGTTAGCACCAGGATAGAGTTAATTGAAAAGG}$
		235951	TGTTTGATGACTTTTACCAGTTAGTTAAAGATGTAGTTGAGATCCAAAAA
		236001	CCTTTAACCGCTTCTTCCAAAACGATGTACGCTGCTCTATTAGTACCTTT
	00	236051	AAAAAGATAGTTATGAAAACCAAAAGTGCTGCAGTAAAACGCTTTAAACT
	30		CACCAAATCAGGACAAATTAAGCGCAAACACGCTTATACTTCCCACCTCG
			CGCCCCACAAATCAACCAAACAAAAGCGCCATTTGCGCAAGCAA
			GTGAGCAACAGTGAATTGAAAAGAATTGGTATTTTAATTTAGTTATGCGT
	35	236251	GTTAAGGGAACAAATACAACCAGGATTAGAAGAAAAAAATGGTTAAAACA
		236301	AGCTAGTGGTAGCTTTGGGACAAGAAAAGCTTCTTTTAAGGCAGCTAAAC
		236351	AAACTGTTATCCAAGCAAGCAAGTATGCTTACCGTGATAGGAGACAGAAA
		236401	AAACGTGAGTTTCGTTCGTTGTGGATCTTAAGGTTAAATGCTGCACTGCG
	40	236451	TGCACAAGGGATGACTTATTCAGTGTTTATCAATGAATTGAAAAAAAGCCA
		236501	AGATAGTCATTAACAGAAAGGTACTTTCTGAACTAGCAATTAAAGAACCT
		236551	AATAAGTTAAATCTGATTATCAATACCATCAAAAAAACCAACTAATAAACC
	45	236601	AACTGTTGCAAAAACTTAGTAACGTTTTTAAAGTTAAGTTTTGCCACCTG
		236651	TTTAAACTGTTCAATTTGACTAAAACCGCGTTGTTGGTTAAGAAATAACA
		236701	. ACGCTTGTTCAATGCCATGACTACTGCCTTTGGGTAAATCATAGTTTACC
		236751	TTTTGGTTGAGTAATTGCAGCTGATTAATAAAGCTATCTCTTGCTAAGAT
	50	236801	AGATGCAGCTGCAATCACCAGTGACTTAGTTTCACCATTAATTA
		236851	L GATCAGGTAATAACACTGTTTTATCAGTGAAATTAGTTAG

	236901	${\tt TAGTTAACAAATAACTCTTGATTGGCAAACTGGTCAATGCTAATTGTTAC}$
5	236951	${\tt TGTTTGTCTTAATAACTGATTTTTTTCCAGTAACTTTTGGTAAAGCTGAC}$
	237001	${\tt AGTGTAAATTGGTCAAAAGTAAATTGGTATTTTCAGTGATTTTGTCAAA}$
	237051	${\tt TCATTATACTGCTTGGGATCTAATGTAATTGTATGGTGATCCATTACTGT}$
	237101	${\tt TGTTTGGATCGATTTAGCTAACAGTTTGACAGTGTGATCACTGAGTTTTT}$
10	237151	${\tt TTGAATCAGTTACTTGTAAATTTTcCAAGATTAATAAGCTGTTTTTTTC}$
	237201	${\tt AATTAAAACAGCACTAACACAAATCCCACCAAAACTATCACCCTTGCCAG}$
	237251	${\tt ATTCATCACTGCCAATTAAATAAAAATCAGCTGGTTTGTAATGTTGCAAC}$
	237301	${\tt TATCTAGTTAATTAATAAAATTATACTTACTCTGATTGAT$
15	237351	${\tt TGAACAGAAACGTGATTATTATGAAGTGTTAGGAATAACCCCTGATGCTG}$
	237401	${\tt ATCAATCAGAGATTAAAAAAGCCTTTCGTAAGCTGGCTAAAAAAGTACCAT}$
	237451	${\tt CCTGATCGTAACAACGCGCCTGATGCTGCTAAGATTTTTGCTGAAATTAA}$
20	237501	${\tt TGAAGCAAATGATGTTTTATCAAACCCCAAAAAAAGAGCTAACTATGATA}$
	237551	${\tt AGTATGGTTTTGATGGGGTTGATGGTGAACCTGCTTTTAACTTCCAAGCA}$
	237601	${\tt GATGTTTTCAATCCTTTTTTGAAGAGATAGCAAAATCAGGGGTTTTTAA}$
	237651	${\tt CAACCAAACCAATCCTGAACAAAAAGAAAAAAAAAAAAA$
25	237701	${\tt TCTCCAAAAAACCTAAGCAAGAACAACCTGAAATTAACTTAGATCACGTT}$
	237751	$\tt GTTGAGCAAACCATTAAAAAGGTGCAACAAAACCAAAACCAAAACAAAGA$
	237801	$\tt CCCAGATGAATTACGTTCTAAGGTCCCTGGAGAGGTTACTGCTAGTGATT$
30	237851	${\tt GGGAAGCATTGGTTGGTGATACTAGGTATTGGTATTTTGATGAAACAGGG}$
	237901	${\tt GATTGGAGTTGAAAGGGTTACTTTGATGAACAGGGCAAATGGGTTTGAAA}$
	237951	$\tt CGAACCAGTTGATTCTGAAACCAGTGAGGTATCAGTTGAACCTGAACCAA$
	238001	$\tt CCCCAGTTGCCCCTGAAGCTAGTTTTGAAGAAGCTCAACCTGAAATTAAT$
35	238051	${\tt GCTGAACCAGAAGCTAGTTTTGAATCAACTCCAACTCCAGAACCAGTTGC}$
	238101	$\tt CCCAGAAGCTAGTTTTGAAGAAGCTCAACCTGAACCAACTCCAATTCCTG$
	238151	${\tt AACCAATCCCAACCCCAGTTCAAGTTCAACCCCTGTTGTTAGATCTCAAC}$
40	238201	$\tt CTCTTTACTATCCCAACTAAAGCTACTAAGGATGATCTTTTGTTTG$
	238251	${\tt CATTAACCTCACTATGAACAAGTTGTTGATTATCTCAACAGTCAAG}$
	238301	${\tt CAACCCCTAATTTAGCTAAAACCGATGGTGAATTGCAAACGATTGATGGT}$
	238351	${\tt ACCAACCCATTGTTATTAGAACAGTGCAAAAAGATCAAAAAACAAGCAGA}$
4 5	238401	${\tt ACAACTCTTTAAAAAACTCTTTTTAAAAAAACAACTCCCCTTCATCA$
	238451	${\tt AACCTGAAGTTGTTGAGGAAAGTAAAACCAGTTTTGATGAGAACAACGTT}$
50	238501	${\tt AACCTTGTTTACTTTGAAAAGGTCCCTGAAATCCTTTTCATTAACCAACA}$
	238551	${\tt ACCTAAGGAGGTAAAATACACCCGTCAAGTCTTTGATGGGTTGACAAACA}$
	238601	${\tt AAACAACTAGTGAAACGATTACACTAGAGATCCAACTCCTCCAAACCCCA}$
	238651	${\tt AAAGAGACTGTTAGTGCCATTTTTAAAGGCTTTGGTAATGACCATGGCAA}$

	238701 GGGCTGTGGGGATTTAAAGATTGTTTTTGAAAAGATTAAAAGCCCCTTTT
	238751 TTCAAGTCAATGAGGATGGCTTGCACTCTGCTTGCATCATTGACCCTTTA
5	238801 GTTGCTTACAACGGCGGGATTATCGATGTGTTTGGGCCCTACACTAACTT
	238851 CCAAGTTAAGGTAGATGGGGAGATAGACATCAATGCCATTATGAAGTTTG
	238901 AAAAACTAGGCATTGCTAAAACCAAGCGCAAGGGCGATCTTTTTGTCCAT
10	238951 CTCTATTACAGTAGTGTCCCTAAAAAGAAACTCACCACTAACCCCCAAGT
10	239001 TCAACAGTTCTTAGAACTTTTACAAGCTGAATATGAACTGTTGCAAGACA
	239051 ACATCAAGAGCTTAAAAGTACTTTAAAAATAACCTAGTTATCCCCAAAAAG
	239101 CCACTTGATCAACAAAGCTATCAATACCTCTCCCAAGAACCCATTAGTTA
15	239151 GAATTTGTTAATATGTGTGAAAAATCACAAACAATTAAAGAGCTTTTAAA
	239201 CGCCATTAGAACCTTAGTTGTCAAGAACAATAAAGCTAAGGTTAGTATGA
	239251 TTGAAAAGGAACTGTTAGCTTTTGTTAGTGAACTTGACAAAAAGTTCAAA
20	239301 CAACAACTCAACAACTTCAATGAACTACAACAAAAGATCCCACTACTCCA
20	239351 AAAAGCTAACGAAGAGTTTGCTTTAAAGTTTGAAAGGATGCAACGCGAAG
	239401 CACAAAACCAGATCCAAGCCAAACTAGATGAGTTGAATCTTAAAAATAAA
	239451 AAGGAGTTAGAACAAGCCAAGAAATATGCGATTGCCAAAACCCTTGACCA
25	239501 ACCCTTAAACATCATCGATCAGTTTGAAATCGCGCTTTCATATGCCCAAA
	239551 AAGACCCTCAAGTAAAAAACTATACCACTGGTTTTACCATGGTACTTGAT
	239601 GCTTTTCAAGGTGATTGGAAGCAAATGGGGTTACCAAGATTAAGATTGA
20	239651 ACCAGGGATGGAATTTGATGAAAAGATTATGTCTGCATTGGAACTAGTTG
30	239701 ATTCTAACCTTGCTAAAAACAAGGTAGTAAGAGTCTCAAAATCTGGCTAT
	239751 AAACTCTATGACAAAGTGATCCGCTTTGCATCAGTATTTGTCAGCAAAGG
	239801 TAATAAAAATCATAATAACAACTTATGAGTGAACAAAAAAGAAGAACAA
35	239851 TCCAAATTGCGATAAGTGAAGACCACTATGAAGAGTTACAAAAGGCATTG
	239901 GAACTACTTAAAGGGACCCAATTACCCTTTTCAACCACTGTTGAACAGTT
	239951 TGTGGAGTTAATCTTATCTAACTATGTAGCTACTTCCAATAAGATTAGTA
40	240001 GTTTAGCTAAGAGTGGTTTTGATGTAGCTTCATTGCAGCAAGAACTTGAG
40	240051 AAGATAGGTAACCTTAGTGGGGTTGATGATAACCTCAAGGGTTTTCTCTC
	240101 AGAACTGTTGAAAACCTCAAGGAATGGGTTTAGTAACCCCAATAAAGATG
	240151 GCAAAAAAATGATGACGATAATAACTCGTCATCAAAATCATAGTTATAT
4 5	240201 AAAACTTTAAGTGGTGCCGAATAACAGAGTCGAACTGTTCTCTGATCCTT
	240251 ACCATGGATCTGTTTTGCCCCTAAACCAATTCGGCAGCAAAGCTAATTTC
	240301 AATTTTAAATTCAAACTTTAGATGAAAAGTAACTACAGTGCAACTAACAT
50	240351 CAAGATCTTAAAGGGTTTGGATGCAGTTAAAAAGCGTCCGGGGATGTACA
50	240401 TTGGTTCTACTGATAGTAAGGGTCTGCACCACATGCTATGGGAAATTCTT
	240451 GCTAACAGTGTTGATGAAGTTTTAGCTGGTTATGCAACCAATATTACTGT

	240501	${\tt TACTTTAGATCTCAACAACACCATTACTGTTAGTGATGGCAGGGGTA}$
5	240551	${\tt TTCCCTATGAGATCCACCAAGACAGTAACATCTCTACGATCGAT$
	240601	${\tt TTCACCTTTCTCCATGCAGGGGGGGAGTTTGATGATCAGTCATACAAACT}$
	240651	${\tt AGCAGGGGGATTACATGGGGTTGGTGCATCAGTGGTCAATGCCTTAAGTG}$
	240701	${\tt ATCATTTAGAAGTAACAGTGAAAAGAAATGGTCAGATCTACCAATCAGTT}$
10	240751	${\tt TATCAAGCTGGGGGTAAGATCATCCAAAAAGCCAAAAAGATTGGTGATACCAAAAAGATTGGTGATACCAAAAAGCAAAAAGATTGGTGATACCAAAAAAGATTGGTGATACCAAAAAAGATTGGTGATACCAAAAAAGAATTGGTGATACCAAAAAAAA$
	240801	${\tt AACTAGCCATGGTACCACTGTTAGTTTCCATGCTGACCCTAAGGTCTTTA}$
	240851	${\tt AAAAGGCTCAATTTGATAGCAACATTATTAAAAGCAGGTTAAAAGAGCTA}$
	240901	${\tt AGCTTTCTGTTTGCTAAACTAAAGCTCACTTTTACTGATCAAAAAACTAA}$
15	240951	${\tt TAAAACCACTGTTTTTTTTTTTTTTTTTTTTTTTTTTTT$
	241001	${\tt AAATTAATAATACTGTAGAAACACTTGGCCAAAAAAACACTGATTAAAGGT}$
	241051	${\tt GAGAAGGATGGAAGTGGAAGTGGTTTTCCAGTTTAACCAATCAGA}$
20	241101	${\tt TCAAGAGACAATCTTATCATTTGCTAACTCGATTAAAACCTTTGAAGGAG}$
	241151	${\tt GGAGTCATGAAAATGGGTTTTGTCTTGCCATTAGTGATGTGATCAACAGC}$
	241201	TATTGCAGAAAGTACAACTTACTAAAAGAAAAAGATAAAAACTTTCAACT
	241251	${\tt TAGTGAGATCAGACAAGGGTTGAATGCTATTATCAAAGTTAACTTACCTG}$
25	241301	${\tt AAAAAAACATCGCTTTTGAAGGACAAACTAAGAGTAAGTTGTTTTCAAAG}$
	241351	${\tt GAAGTGAAAAACGTTGTTTATGAATTGGTCCAACAACACTATTTCCAGTT}$
	241401	${\tt TCTGGAAAGAAACAACAATGATGCTAAATTGATCATTGATAAACTACTCA}$
30	241451	${\tt ATGCTAGAAAGATTAAAGAGCAAATCAAACAACGTGAGTTGAAAAAA}$
	241501	${\tt AGTTTATCAAGTCCCCAAAAAGAGAAGATCTTATTTGGGAAGTTAGCACC}$
	241551	${\tt TTGTCAAACCAAAAAAACCAGTGAAAAAGAGTTGTTTATTGTTGAAGGTG}$
	241601	${\tt ATAGTGCTGGTGGCACTGCTAAAATGGGCCGTGATAGAATTTTTCAAGCT}$
35	241651	${\tt ATCTTACCTTTGCGCGGCAAGGTGTTAAATGTTGAAAAAATTAACAATAA}$
	241701	${\tt GAAGGAAGCGATCACTAACGAAGAGATCCTCACTTTAATCTTTTGTATTG}$
	241751	${\tt GTACAGGGATTTTAACTAACTTCAACATCAAGGACTTAAAGTACGGAAAG}$
40	241801	${\tt ATCATCATTATGACTGATGCAGATAATGATGGCGCACACATCCAAATCCT}$
	241851	$\tt CTTACTTACCTTCTTTTATAGGTACATGCAACCCTTAATTGAACTGGGCC$
	241901	${\tt ATGTCTATCTAGCTCTTCCTCCTTTATATAAACTGGAAACCAAAGATAGA}$
4 5	241951	${\tt AAAACAGTTAAATACCTCTGGAGTGATTTGGAGTTGGAATCAGTCAAACT}$
	242001	${\tt AAAGCTTAATAACTTCACTTTACAACGATACAAAGGACTTGGAGAGATGA}$
	242051	${\tt ATGCTGATCAGTTGTGAGATACTACTATGAATCCAACTACCAGAAAGCTA}$
50	242101	${\tt GTGCAAGTAAAGCTTGATGATCTAATTAACGCTGAAAAGCAAATCAACAT}$
	242151	$\tt CTTTATGGGTGAAAGAGTGATTTGCGCAAACACTGGATTGAAGCCAACA$
	242201	${\tt TTAACTTTAGTGTGGAAAACTAATGGATCAAAAAAACAACCACCTCTTTC}$
	242251	${\tt AAAAGGCAATTGAAGAAGTCTTTGCAGTTAGCTTTAGTAAGTA$

	242301	TACATCATCCAAGATAGAGCTTTACCTGATCTAAGAGATGGGTTAAAACC
;	242351	AGTACAAAGACGGATCTTATATGGGATGTTTCAAATGGGCTTAAAACCCA
	242401	CCACTCCCTATAAAAAATCAGCCCGTGCTGTTGGGGAGATCATGGGGAAA
	242451	TACCACCCCATGGTGATAGTTCCATTTATGATGCAATTATCAGAATGTC
	242501	CCAAAGCTGAAAGAACAACTGAACAACTGTTTCTATCCATGGTAACAATG
10	242551	GTTCAGTGGATGGGGATAATGCTGCAGCAATGCGTTACACAGAAACCCGC
70	242601	TTAAGCTTGTATGGATTTGAACTATTAAAAGACATTGATAAAAAGTTAGT
	242651	TAGTTTTATCAATAACTTTGATGATAGTGAAAAAGAACCAACGGTTTTAC
	242701	${\tt CAACCTTACTGCCTAACCTCTTTATCAATGGTGCGAGTGGGATAGCTGCT}$
15	242751	GGATATGCAACTAATATTGCTCCCCATAACACTAATGAACTATTAGATAG
	242801	${\tt TCTTTGCTTGCGAATAGACCAACCTAATTGTGAACTTAAACAAATTTTAA}$
	242851	${\tt AAATTGTTAAAGGTCCTGATTTTCCAACAGGGGGTAATGTTTATTTTGAA}$
	242901	${\tt AAGAGTTTAAGTGATATTTATCAAGCAGGCAAAGGTAAATTTATTATCCA}$
20	242951	${\tt AGCTAAGTATGAAGTTAACAAGAACTTAAACCAGATTGAAATTACCCAAA}$
	243001	${\tt TCCCTTATGAAACACTGAAAGCTAACATTGTCAAACAAATTGAAGAGATT}$
	243051	${\tt ATCTTTGACAATAAACTATCTGCTATTGAAAGTGTCATTGATAGTTCAGA}$
25	243101	${\tt TCGCAACGGCATTAGGATCATTATTAAACACAAGGACTTTTTGCCTGCTG}$
	243151	${\tt AGAAGATCATGGCCTTTTTGTTTAAACACACCCAACTCCAAGTGAACTTT}$
	243201	${\tt AACCTTAATAACACCGTGATTGCTAACCGCTTTCCCATCCAAATTGGTTT}$
	243251	ACTAAGTTACCTCGATCATTTTTTAAAGTTTTGTCATGAACTAATTATTA
30	243301	ATAAAGCTAAGTATGAACTTGAGCTTGCAAGCAAGCGCTTGGAAATTATT
	243351	TTAGGACTAATTAAAGCGATTAGTATCATTGATAAAATCATCAAATTAAT
	243401	TAGATCAGCAGTTGACAAAAGTGATGCAAGAGAAAAGTTAATTGATAACT
35	243451	TTAAATTTACTTTTAACCAAGCAGAGGCAATTGTTAGTTTGCGACTTTAC
	243501	CAACTAACTAACACTGATATTTTTGAACTTAACCAAGAACAAAATGAACT
	243551	TGAAAAAACTGTGATTAGTTCAGAGCAACTAATTGCTAGTGAAAAAGCAA
	243601	GAAACAAACTCCTAAAAAAACAGTTTGAAGGTTATAAAAAGCAGTTTCAC
40	243651	CAGCAACGAAGGTCACAAATATGTGGCTTTATTAACCAAAAAAAA
	243701	GGAAAGTGAGCTAATTGAAAACAAAACTTATGGGGTTTTAATCACTAAAG
45	243751	CTGGTAACTACCATAAGTTTGAATCTAACCAACTATTAAAAAGCACCACT
	243801	GATTTTAAAAGTGAGAGTGACACAATTATCTTTGCACAAACTATTGCTAA
	243851	. TACCGACCAAATTTTTATTGTCACTTCACTAGGTAACATTATTAATATCC
	243901	CTGTTTATAAATTAGCTTTCAATTCCAAAAATAAACTAGCAAGTTTAGTT
50	243951	AGTAAAAAACCAATCCTTTTGGAGTATGAAACGATTGTTTTTTTT
	244001	AATGAACAGTGTAAACCAACCAATCCTTGTTTTAACTTCCAAACTAGGAA
	244051	TGGTTAAACGGATTGATTTAACCAAACTTAACATTAAGCCACTTAAAGCT

	244101	${\tt ACTTTGTGTATCTCACTCCGTGATAAAGACCATTTAGTAAGTGCATTTTT}$
5	244151	ACAACAAGATGATAAACTGATCTGTTTAGTGTCTGATCACAACTATTACA
	244201	$\tt CTGTTTTTCACACCAATGAGATCCCATTAATTAGTAGTAAGGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGGATGGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGGATGGATGGATGAT$
	244251	${\tt GTGAAGGGGATGAAGTTAAAACTAGAGGATCAAATTAAGTTTGTTGCCCCCCCC$
	244301	${\tt TTTTGAAGCTAATGAACCGTTAGTGATGATATGTAGTGATGGTAGTGTCA}$
10	244351	${\tt TTAACTTAAAACAAACTGAACTAGTTGTAGTTAGCAGGATGGCAACTTAACTGCAACTAACT$
	244401	${\tt AAAAAACTGCCTGTTAAGAAAGCAATTAACTATTGTTTTAGTGATGCAACCCCCCCC$
	244451	${\tt TAACACCCAGTTAATTAATTTTCAGGGTAAGAACGGTAGTAAATTAATT$
	244501	${\tt CAACTAGTGAACTGAACCAGATGAGTAAAACTGCAATTAGTCAAACCAGG}$
15	244551	${\tt TTTAACAAACTTAATTAGGTTTGGTTGTGGATCTTTTTATCATATTTTTC}$
	244601	${\tt TATCTCTTTTTAGAGTAGTTAATAAGGCTTTAATCTTTTGGTAGTCCA}$
	244651	${\tt TTCTGGTTGGTCCTACTATAGCAAGTTGGTGCTTGGCTTCACTGGTGGTACTATAGCAAGTTGGTGCTTGGCTTCACTGGTGGTACTAGCAAGTTGGTGCTTGGCTTCACTGGTGGTAAGTAGGTGGTAGGTA$
20	244701	TTGATTAAAGTAGAAGCAACTGATATCTCTTTAAAACCCAATTGATCACC
	244751	${\tt AAAGACAATGTTGGTTTTGGTTTGGTTTATGAATGCCATCTGTT}$
	244801	${\tt GTCAAACACTAGTATCTTCAAGCAGATTTAAGATTTTAGTGAGTTTCTCT}$
	244851	${\tt TGGTTAGCAAACTCGGGTTGTTTAGCAAGGTATTGGATCCCATAGATCTT}$
25	244901	TTTATTTGCCTCAATTTGATCTAAATCAAATAACTTAAATAAGATCTCAT
	244951	CAATTACATACTGATACTCATGAACCTTGGTTCTAATGATCTCTTTTAAA
	245001	ACTTCTAGTTGGTTGTTAATCTCTGAAAAGCGGGTATCAATGATGCGATC
30	245051	ATTAAAGATCCTTACACAAATAACAATGTCTTCAAACTGCCTTTGGTTAG
	245101	CATAGCTAATGGTTTTTTTAAAGACTTTACCACTAGCGGAGACCAATAAA
	245151	${\tt AATAAGGCAAATGACTTATCAAGGATGATCAGATCAATCTTTTTAAAACCCCCCCC$
	245201	TTCATCACTACTAAAGTTAGTTAACACTACTGGTAGGTTAATGATCTCAT
35	245251	TGATAAACTTAACCCCAAGTTCAATCACCTCATCAATCGTTTTGTGTTGC
	245301	TGGAGAATAACACTTCTTAAGCGGGTTTTCAGATCGTTAGTGGTGTTACT
	245351	AACATTTAACACTTTGACATAATACTGATAACCAATTTGGGAAGGAA
40	245401	GGCCTGAAGAGATGTGGTTTTTCTTTAAGAACCCTTTTTTCTCTAAAGCT
.•	245451	GCCATCTCATTTCGTAATGTTCCCCCAGAGAGGTTTTTAAAATATTTTTT
	245501	GGTTAGTAATTTACTGCCAACAGGGATAGCATAAGCAATGTATTCATTGA
	245551	TAATTGCTTTGAGAATTTGGGCTTGCCGTGGCGTTAAATTCTTCATTAGT
45	245601	TATCTAATTTTATCTTTTAACAATAACCAGCTTGACCACTAATCTAAAAC
	245651	AAAAGTTAAAAACTGCACCTAAAAAACCGGGGTGTTATTTGTGAAAAGAT
50	245701	AGTAACGGTAAAGTTTTATATGTTGGTAAAGCTAGTAATATTTTCAACAG
	245751	GGTCCACCAGTATTTTCAAAAGAATAATCCTTATAAAACCCAGCTATTAT
	245801	CAAGCCAAATTAGTGATGTTGATTTTTCATTCTCAAAGATGAAAATGAT
	245851	GCTTTAAATCTGGAAGCAAAGCTCATTAATCAATATCAACCCCGCTTTAA

	245901 CTTAGTTTTAAAACAAAACAATGGTTATCTTTATTTTTATATCACTAAAG
	245951 CCAAAAAACCTACCTTGGAATTAGCCAGAAAATACCAGATTAAAACCACT
5	246001 AAGTGCTTTGGACCGTTTGCTTCAAGTAAGTTTAAGTTACGTGAGATCCA
	246051 TGACCTACTTTTAAAACTCTTTCCTTTAAGAAAGTGTGCACCTCACCAAA
	246101 AAAACCACCCGTGCTTTTATTTTCAGATGGGTTTATGTATG
	246151 ATGCAAACTGATACTAAGGAAAAATACCAACAGGTAATTAGTAACATTGA
10	246201 ACAGTTTTTTAATGACCCTAGTGTGGTAATTAACTATTTAAAAGCTGCAG
	246251 AAAAAAAGGCAAGTGATAATCAGGAATTTGAAAAGGCCCAGCAGTTTCTA
	246301 ACACTGCAAAAAGCAGTTTTAGAGTTAACAAAAACCCACCATACCACTAT
15	246351 CATTAAACAAAAATCAAGCCATGATTTTATTGGGTATGTCTTTCAAAATA
	246401 ACGTTTTGGCCATTACCATTTTTTGTTATGAAAAAGGGGAGTTAACTGAT
	246451 AAAGAACAAGCAGTGTTTACCCTAGAGCAAACTGACATTGTGGAAGTTGA
00	246501 AAGTGCTATTATCACCTTTATCTACCACCACTATAAAACTACCCCACTTC
20	246551 CAAGTAAGATTACTGTTTCACTTGATGAAACTAACCTAAAACTTATTAGT
	246601 GATAGCTTAAAAATTGGTGTTTTTAAGCCCAAGAATGGTAATGAAAAACT
	246651 GATCTTACAAACTGTTATTGATAATGCCAAACATGCACTTGCAACCAAGT
25	246701 GGTTGAAGTTTACTAGTAACTATGATAAAACCCAGCTCCACAAGGATTTA
	246751 GCACAACTTCTAAATACTGATTATATCCATAGTCTTGAGATTATTGATGT
	246801 GTCATTCTATGATCAAAACCATGTTGTTGGTTGCATGTTAAGGTTTGAAG
	246851 ATGGTAAAAAGATCAAACACTTATCAAGAAGATACAACATTAACAGTTTA
30	246901 AAAAAAGGTGATACTAACCACATTGCTTTACTTGTTTACAGAAGGATCTT
	246951 AAGTGCGATGCAAACCAAAGCTAACCTCCCTTTTAGTGATCTTTTAATTA
	247001 TTGATGGTGGTAAAGCACAAATTAAAAGTGTTAAGCAAGTTTTTAGTCTC
35	247051 TTCAGTAATGTTAAACCACCCATTATCATTGGACTAGTTAAAAACAAAAA
	247101 CCACCAAACTGATCACATTATGTTATCTGATTTCCAAGTTAAAAAGATAG
	247151 CAATTAACTCCCCACTCTTTCACTATTTAGCAACAATCCAAACTGAAGTT
40	247201 GATGGTTTTGCTAAAAGAAGTGCTTTTAATAAGTTAAGT
40	247251 GCAAAACCCGTTGCTACAAATCCCAGGAGTTGGCAAGATAACTGCCCAAA
	247301 TTCTCTTTGATAACTTTCAAACGCTCAATAACATAAAATTAGCTTCAGTT
45	247351 AATGAGTTAAGCCAGTTTATTAAAAAACCATTAGCACAAAAGATTAAAAC
	247401 TTACTTTGCAAAACAAACTGATTAAGGTTTTGGTAATTGCTGATACCCAT
	247451 GGTCAAAACCAGAGGTGGATTGAACTGAAAAACTACCATAACCCTGATGT
	247501 GATTATCCATGCAGGAGATCACATGACCACTAAACAATTCATGGATCAAA
50	247551 ATGCTACTTTTTGAGTGGCAGGTAACAACGATTCAATTGGCAATGAAATT
	247601 GAAATTTTCCAGTTAGGGCAAATTAACTTTGTGTTAATGCATGGTCACCA
	247651 AGCACCAAGAGATAACCTGAAAAAGTGGTACCAATTATTAGTTTTAAAAG

	247701	${\tt CACAACAATACCCTTGTGATGTTTTAATCTTTGGTCATAGTCACATTGAA}$
	247751	${\tt TATACCAACAAAATTAATATGATCCAGTTAATCAACCCTGGTTCTCTACA}$
5	247801	${\tt ACTACCAAGAAACCAAACCAACACCCCTTCATACTGTACCTTTATTGTCA}$
	247851	${\tt ATAAAGACGAGCTAACTGATCTAACTATCCACTATTACCAAGCTTCAAAA}$
	247901	${\tt GTTAGTTAACAGGATCTTTTAGATAGATAGGTTGTAAGGTTAGAGGATCT}$
10	247951	${\tt TCGATTCTTTCAAAGTGATCGATGTTGCTTAATAACAGCTTGCTATAACT}$
	248001	${\tt CTCAATGTTTCAAAGTTTTCATACATAGGAAGTTCATTGTTTGCCTTAC}$
	248051	${\tt ATAACTTCACAAAATCAGCTTTACTAATTAGCTTTATTTCACTAGTAGTT}$
	248101	${\tt TGGCTGTATAGTCCACAATAGTTCTGATCATTACCACAACTAATCTTGCT}$
15	248151	${\tt AATCCCATGTTCATATGGGATTTGAAAGCGGAGTGAATTTAAAGCATAAA}$
	248201	${\tt GTTCACAACTGGGATACAATAAACACCAGCTTTTAGCAATGATAGTTGCT}$
	248251	${\tt ATCCTCTGACCGGTGAAACTACCAGGGCCAATTGTGACATAAAACTGTTT}$
20	248301	${\tt AATACTGCTTTTTTCAACTTGTTTTTTTTTAACATTGTCTCCAGATAAT}$
	248351	${\tt AAACAGCAAGTTCAGTTAAGTTCTGTTCAACACCAATGGACAACTCATCA}$
	248401	${\tt ACCACTGCATTGGTTTTCATCTCTAAAATAATGATGTTAAGGGTTTTATA}$
	248451	${\tt AGCACAGTCTAAAAACAGCTTATACTTACTTAAAAAGAACATGGAGTGGA}$
25	248501	${\tt TCGGTTAAAGATAAGTTTAAACTCTTAAGTTTCGTTGAAAACTTAGGTTC}$
	248551	${\tt AAGTGGGGCGTGAAAGTCCATAGGTTTGTTTAAAGTGGGATGGAT$
	248601	${\tt AGATCCTGTTTGCATGGAGAAACTGACCATAGCTATCTTTCTT$
30	248651	${\tt TTAATTCCATACAGTGGATCATTATAAACTGGATGTTGGATAAATTTCAG}$
	248701	${\tt ATGCACTCTAATTTGGTGGGTTCTACCTGTTAACAATTCCAAGCTAATTA}$
	248751	${\tt GTGCTGCTTTTCATTCTGATTAATCACTTTAAACTTAGTTATTGCTTGC$
	248801	${\tt TTTGCTTTAGCAGTTTGGGCTATTTTAAACATTACCTTGTTGTTATTAAC}$
35	248851	${\tt CCTTGCTAAAGGTGCATTAATTGAACCAGTTAAGGCATTAAAAGGGAAGT}$
	248901	${\tt GGACTAGTGCTACATAATAACGTTTTAAGGTGCGATTTTGCAGTTGATTT}$
	248951	${\tt TGCAAATTTAATAAGCTTGCTTGGTTTTTACAGACAACAATTGCCCCACT}$
40	249001	${\tt AGTATCACGGTCCAATCTGTGCACTAAGTAAACAGGGTTTTTGTTGTTGTT}$
	249051	GAAAGATACAAGCAGCTAACAAGCTGGCTTTTTCATTGAAAGTGGTGGGA
	249101	${\tt TGGGTTAACAAACCTGATGGTTTGTTAATAACCATCAAATCCTTGTCTTC}$
	249151	${\color{blue} \mathtt{AAAAAGAACCTCAAGCTTTAAGTTATAAGGTTCAACACTAGTAATGAAAT}}.$
4 5	249201	CACTAGTTGTCTCATCATGAATCTCAACTTTAATTACATCATCTTTTGCA
	249251	ACTATTAAACTGTTTTTAAAAGTTAGTTTTTCATTAACTTTAATCTGTCC
	249301	${\tt ATTCATGATCAGCTTCACTACCTTTACTCTTGAAAGGTTCAGTAAGCTAG}$
50	249351	$\tt CTAAAAGACTATCTAAGCGTTTGGTAGTTGTAACAACAAAACACTGTTTC$
••	249401	ATTACTGGTTTTTGGAATGTTTAAACTCTTTGAACATCTGGATTAAAAAA
	249451	${\tt CAAAAGAATAAACCTATAAAACCAAAGGTAATACAACAATCAGCAAAGTT}$

	249501 AAATACTGAACTACCATTCTGAAAGATAAAGTAATCTAACACTGAATCAT
	249551 TAGCTGAAGTTAAACGATCAAAGAAGTTTCCAAGTGAACCAAATGCTAAA
5	249601 GTTGTAATTCAAAAGATGTAACTATATTTCACCATAAAAaCAAGAAAAAC
	249651 TAACGCAATTACTGATAATAATCCCTGGAGAAAGTAAACTAAGCCAGTTT
	249701 GGTTTTGTAATAAGCTAAACCCTACCCCTTTGTTTCTAATCACATAGATA
10	249751 TTAATAAAACCACTATTTGCTACCATGGTGTTATCCATCTCACCATTTAA
	249801 CGCATTTCTTAATATGAAAACTTGCAGTAAGATAATAAAGCCAACAAACC
	249851 CAATCATTGTCAGTTTATAGAATAAAAATGGTTTTTGGTTTGCAGTTAAA
	249901 ACCTGGTGTTTAAGTTGTGAAAAAAACTTGGTTTTTCTTAATTTCATCTA
15	249951 CTTGTATATTCAGTTAAAATTCACTAATTAACTAACAAAAATTATTAAGG
	250001 AGTATTAACACTTTTTTACTAGTTTTTTAAACTAACTTTTTTAAGTGTAAT
	250051 CCTAGTTTAATTTCTGGTAGTTTTCTTTACTAATAGCTACTTGTAAAAAA
20	250101 TTAAAAGTTAGAATTAATGGCACTATTTAGTATATAGATATCAGGCTTTG
	250151 GGGAAAACAAAAAAAAAAATCAGACTGACAGATCTTTCTAGAAGATTACCG
	250201 TTTTTATTTTGAAACAGATTTTGATTGGGTTACATACCTGAACAACTGTT
	250251 TAAACAGCTATCCTGATTTTGACATCATCAAGTTCATTAAGAAGTATGGC
25	250301 CCTGAGTGTGAAAAGAGCTTTCTAAGCTGACAGAGCAAAGCTAAGAGTGA
	250351 TGTTTACAGTGAACTGACTAACAAGATTAAAAAACAACAGTTCTCAGAAC
	250401 AGTTAATTTACCAGCTAGTCCAACTTGATGCTTTACGAACTAACT
30	250451 ATTGGTTCGTTGTTTTCAGATAACAAAACCCAGCGCAAACTCCTGAAGCG
	250501 TTCTTGAAAAATGCTAAGAAAGAAGGTTATACAAAACAAGAATGGTTGA
	250551 TGATCTTAGTTGGTTTACCCTTTGAAAAAGGTGCTTATCATAAGCAGTTA
	250601 TATGACCATTCACGTCAGGAGATCTTAGATCTTACTGAAGTTATTAAAAA
35	250651 GCTTTATCTAAAAACAGAGACCAACAACGATAAGCTTGAGTTTGCTGCAA
	250701 CTACTAGTAAAACAACAGCGCAGCTAACTAAAACTATGCCCTTAAACAGT
	250751 AGTGATCTTGATAAGGATCTAATGGAGTTTAGTGGTGAGAAGTGAGGTGA
4 0	250801 TAATTAGTGCCTAAGATTGAAGTTAAAAATGATGATTTAGAGCTAGCT
40	250851 AAAAAAGTTTAAAAGGATATCACTGGAAGTACGCAGGTTAGCACAACGCC
	250901 ATGAATACCACTTGCGCAAAGGGATGCGGTTAAGAGAAAAACAAAAGATA
	250951 GCACAGAAAAAGCGCAGGAAGTTTCGCAGTTTAGCTAGCCATTAAGATGG
45	251001 ATAATAAAAACCCCCAGAAACTTATTACTAGTGAATTGTTGGCAAACCAC
	251051 CGCTTTAATTTTGCTAAAGATGATAAAGGTGGGTATGATGCTAATGAAGT
	251101 TGATGCATTCTTAGATCAACTAACCAAGACTTTAATCCACTATGAGGAGA
50	251151 TGAAAAACAACGAACAAGAATTGAAAAATGCTTATGACAAGTTGTTTTCA
50	251201 GATCGTGATCAGATTTTAAGTCGTTGTGCTAAATTAGAAGCTGATTTAAA
	251251 CACCTTTATGAAAATGGTTATGCAAACAAGGTGTTAATTAA

	251301	AGGAGI IGGAGGATAAACI IGAAAAACIACCIGATCGITACACIGAAAAA
	251351	${\tt CTAGAAAGGATTGAAAAACTGTTAAAAAAGGTCATTAAACACTGAACAACTGAACAACTGAACAACTGAACAACTGAACAACTGAACAACTGAACAACTGAACAACTGAACAACAACAACAACAACAACAACAACAACAACAACAAC$
5	251401	$\tt TGGGGAGGACATTAGTAACTTTGAAGATGAGTTTTTTTAAAGATGGTTGTTGTGAGGAG$
	251451	${\tt TGGGATAGGGATTGATGTTGTGCAATTAAAGCGCTTCTTAACTTTAGTTG}$
	251501	${\tt AAACTAGTGATTGTTTTGCTAAACGATTGTTAACTAGCAATGAACTAAACGATTGTTAACTAGCAATGAACTAAACGATTGTTAACTAGCAATGAACTAAACGATTGTTAACTAGCAATGAACTAAACGATTGTTAACTAGCAATGAACTAAACGATTGTTAACTAGCAATGAACTAAACGATTAAACGATTGTTAACTAGCAATGAACTAAACGATTAAAACGATTAAACGATTAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAACGATTAAAAAAAA$
10	251551	${\tt AGTTATTGAAAGCTAAACAATAACCAAAGAGCTAATTTTCTAGCAGTGCAAAGAGCTAATTTTCTAGCAGTGCAAAGAGCTAAATTTTCTAGCAGTGCAAAGAGCAAAGAGCTAAATTTTCTAGCAGTGCAAAGAGCAAAAGAGCAAAAGAGCAAAAGAGCAAAAGAAG$
	251601	TTGAACTTTAAAAGAAGCGATTTATAAAGCTACCAGTCACATCAAACCAC
	251651	TTTTCACTAAACTTGAAATTTATAAACTTAACAACCAGTACCGGTGTGAA
	251701	${\tt TTTATCCAAAACATCAACCTGTTGTTATCAGTTAGTTACACTAATTGCCAAATTGCAAATTGCCAAATTGCAAATTGCCAAATTGCAAATTGCCAAATTGCAAATTAAAATTGAAATTAAAATTGAAATTAAAATTGAAATTAAAATTAAAATTAAAATTGAAATTAAAATTAAAATTAAAATTAAAATTAAAATTAAAATTAAAA$
15	251751	${\tt TGTTAGTGCTATCTGTTTAGCACAAAATGGATAAACTATTTAAAACAAAAACAAAAATGGATAAACTATTTAAAAACAAAAAAAA$
	251801	${\tt AGTTTTAGATTCATAATAAGGTTTTTACAAATCCTGAGTTTACCAGTTGT}$
	251851	${\tt TTTTCCTTACTTTTATTAAGCTTTTTAGCTTGTTTAATTACTAGTAAAAAAAA$
20	251901	ACTATGAATCACTCCCTTATAACTATCCCCCTGAAATCCGATTCAAAAAG
	251951	$\tt GTGTATAGATTGGTATCAATGTGACTTTACATTAAGGGAATTAAAGTAGT$
	252001	GACAGTAAATGACAAGATTATCCCTAAAAAACCAGTTTTAGTGGTAGCTA
	252051	ACCACAAATCTAACCTTGATCCTTTAGTATTAATTAAGGCCTTTGGCAGG
25	252101	${\tt TTGAAAAATAGTCCACCATTAACCTTTGTTGCTAAGATTGAACTGAAAGA}$
	252151	TACAGTCCTTTTTAAACTGATGAAATTAATTGATTGTTTTTTTT
	252201	GAAAAAACATCAGACAAATTGCCAATGCATTGGAAACCCAACAACAACTA
30	252251	ATTCGCCAGGGCACTGCTATTGCTGTTTTTGCTGAAGGGACTAGGATTTT
	252301	AAGTAATGACATTGGGGAATTTAAACCAGGAGCACTAAAGGTTGCTTACA
	252351	${\tt ATGCTTTGTACCTATCTTACCAGTTAGTATTGTGGGTAGCTTAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAGGAAAA$
	252401	ATGGAATCAAACAAAGGCTAAAAGAACATGGTGTTAAGAAAAGTTCAAA
35	252451	CTATGAGGTTAAAGTAATCTTTAACAAGCTAATTAACCCAATTAGTTTTA
	252501	ACCAGATTGATTCTAATAACCTTGCTAATAACATTAGAAGCATTATTAGT
	252551	GATGCATACACTAGTGAAAAACCAAGCAATGATTAGTTTAATTTTTGATA
40	252601	AAAGCAACAGTTTTAACCCCCCAACTTTGTGTTGAACTTCTCAACCACTTT
	252651	AAAGTGGTTATGCTAACTAAAACCATCGTTGTTGACTATCCCAGCTTTCA
	252701	AGCATGAAAAGCACAACTCAAACCGTTTAAATTAGCAGTTTTTAGTGATA
	252751	ATTTGCAAACCGAATTAACCCCAAATTCAAAACTCACAGTTTTTAACAAC
45	252801	TACCAGCAACTTTTAGTTGATAATAATGACCTAATTATCTTTGCAACCCC
	252851	CACTTTAGTTCAGCTTTTTGATAATGAGATTGACCAGTTAATAGTTATCA
	252901	ATCCCACTAGTAAATCTAAAGATCAGTTTAACTGTAATTGAAACGACTTT
50	252951	GTTTTAATTAAACAAACTAATTTCAAGAACCATCAAGTTGGTTATTTTGA
	253001	TAAAAAAGTAGTTATGAACCACCTTTCACTGTTGTTACAGACCACTTCT
	253051	TTGGGAACCTAACTGATTTATTTAGTCTTTTAGTTGATAAAAAGGTAAGT

		GTAAATGATGTGGATATTGGCTTGATTTCCTTACAATATCTCAATATCAT
		TGCAAATTACACCAATAAAAAAGCCATTGAAAAGATCACTGATTATCTGG
5		TGATTACAAGCAAAATTCTCGCTAAAAAAGCAGATAATCTGCTCAATGAT
		CATCAGGAAGAGTGTGTTGGAATATGATTTAGCTACTAATAACTTTCG
		TGATAAGATGATCGCTAACTTAGTGGAACACAAACGCTATTGTGATTCAC
10	n	TGGGTGAATTTGAAAAACTCAGGGTTAACCGCTTAGCTTACTTTTCCAAA
, -	253401	GCTAATGAGATGGAGCAATTTATCAAAACAGCTAATGATCAACTTGTTAC
		AGTTGAAGATCAACTCCCTAACTATATTAGTGTCTTAAAACTCTTTCATG
		CTATGAACAAGTTACTGGAGATGAGACTCAGCTCTCTTCTAACAAATAAA
15		AACATCACCATTAAAGAGTTATCAGTTGAACAGGTTCAAAAGGAGTTGGT
	253601	TTTAGCAATCAAACAGTTTAACTACCAAACAGTTTCTTTAAAGCGGGTGT
	253651	TATTAAAACTTAACCATCCTATCTCTTTAATGTATTTLGTTACTGCTTTT
	253701	${\tt GTGGCACTTTTAGTGCTATTAAACAACCAGGTAATAGGTTTGGAACAAAA}$
2	253751	AGATTATCACAGTGAACTTTACATCTTTTTACTAGATGAAAACCAACTGA
	253801	AAACCTTCCAAGAATCACCAGATGAAATGGTAAAAAGAATCCAAGCTCAA
	253851	CAACAGCAAAACGAACTGATAATTGCTAAAAACAAGCAACTAAGAGCTAT
2	5 253901	CAAAAACAAACAAAAGCGAGCTGATTATCTAAAAAAGAAATATGGTGAAA
	253951	ATTACTTAGATAAAACTAACTTAAAAGATGAAAACAACAATTAATATTGC
	254001	CACCCCTACCCTAAAAAAACCTAGCAAAGAAGCTAACTTGGTTGCTAGTA
	254051	TCTATGGGTTGTTATTTGTTGTGGCGCGAAAGGGATCACTTTAAGAGAA
3	254101	CTAATTAGGATCTTTAAAAAAGCAGGGATTGAAAAGGTGAAATTAGCACT
	254151	CTTAGCACTTGAAAGGAAGTTAGCAGATGATGAGCAATCAGGAGTGGAGT
	254201	TGAAAAAATTTGGTAATAGTTTTTCTTTGGTAACAAAACCAATTATCAAA
	254251	GACTATCTCCACTTATTATTGGCTCATAAAGTCAAAAATCCCCTTAATTC
		CAAAGCAATGGAAGTGTTGGCTATCATTGCTTACAACCAAC
	254351	GACCCAGAATTAATGAAATTAGGGGAGTTGATTCTTTTCAAATTGTTGAT
	254401	GATCTAATAGCAAAAGAGTTAATTGTGGAGTTAGGGAGAACTGATAAACC
4	⁴⁰ 254451	AGGTCGACCTTTTATTTATGAAGTGTCAGCTAAGTTCTATGATTTATTT
		GCATTGATAGCTTAGATCAACTCCCTAAGATTGAGCATTTTGATCTTGAT
		AAATTTAAGCAAGGTAGCTTTTTTGATTCCAACCGCTATGGTGATGAATA
4 5	254601	ACCTTATATAATTTACAACATGGATAAAATAGCTATTTTAACTTCGGGTG
	40	GTGATGCTAGTGGGATGAATGCCACCATCGCTTATCTAACCAAATATGCA
		ATTGCAAAGCAATTGGAAGTTTTTTATGTAAAAAACGGTTATTATGGCTT
		GTATCACAACCATTTTATCACCAGTAAGGAACTTGATTTAACTGACTTTT
50		TCTTTATGGGGGGAACAGTAATAGGATCAAGTCGTTTCAAACAGTTTCAA
		GATCCTAGCTTACGAAAACAAGCAGTTTTAAACCTCAAAAAACGTGGTAT
	234831	, UNICOLINGIA INCOLOR

	254501	TAACAACCIIGIIGIIAIIGGIGGGAAGIIAIAIGGGIGCIAAA
5	254951	CACTCAGTGAATTAGGATTAAACTGCTTTTGTTTACCTGGTACGATCGA
	255001	AATGATGTCAATTCCAGTGAATTTACCATTGGTTTTTGAACTGCTTTAG
	255051	AGCAATTCGGGTTAATGTTGAAGCAATTTATCACACCACCAAATCCCAT
	255101	ACCGCTTAGCAATCATAGAAGTGATGGGGCGTGATTGTAGTGATCTGAC
0	255151	ATCTTTGGGGGGTTAGCTACTAATGCTAGTTTTGTTGTTACTAGCAAAA
	255201	TAGCTTGGATCTCAATGGCTTTGAAAAAGCAGTGAGAAAGGTGTTGCAA
	255251	TCCAGAACTATTGTGTTGTTTTGGTTAGTGAAAACATCTATGGTAAGAA
	255301	GGTTTACCTAGTTTAGAAATGGTTAAAGAGCACTTTGAAAACAACGCAA
15	255351	TAAGTGTAACCTAGTTTCACTAGGACACCCCAAAGGGGCTTTAGTCCT
	255401	ATAGTATCGAACTCTTTCAGATTAGTTTAATGGCTAAACACACGATTGA
	255451	$\tt CTGGTTGTAAATAATGCCAACAGTCAAGTAATAGGGATGAAAAACAACCAAC$
20	255501	AGCAGTTAACTATGATTTTAACACTGCTTTTAATTTACCAAAAGCTGATA
	255551	GAACCAAGTTACTTAACCAAGTTAACACTGCAATTATTTAACGATGATTC
	255601	ACCATTTAAAAAGAACAAAGATAATCGCTACCTGTGGCCCAGCTTTAACA
	255651	AAAAGCTTGGTTAGCTTAAAGATGCTTGATGATAATGAGTATGCAGCTA
25	255701	${\tt TAAAAAGGTTGCTTATGCCAACATTGAAGCAATTATTAAAAGTGGGGTTATGAAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAGTGAAAAGTGAAAAGTGAAAAAA$
	255751	GTGTGATTAGGCTTAACTTCTCTCATGGTACCCATGAAGAACAACAAGTC
	255801	${\tt AGGATCAAGATAGTAAGGGATGTAGCGAAAGCAATGAACATCCCTGTTTCCTGTTCCTGTTCCTGTTCCTGTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCCTGTTTCTTTCTTTCTTC$
30	255851	TATTATGTTAGATACAAATGGTCCTGAGATCAGGATAGTAGAAACTAAA
	255901	AAGAGGGTTTGAAAATCACCAAAGATAGTGAAGTGATTATCAACACCATC
	255951	${\tt AGTAAAATGATCGCTAGTGACAACCAGTTTGCTGTCAGTGATGCTAGTG$
	256001	CAAATACAACATGGTTAATGATGTGAATATAGGTCAGAAAATCCTTGTTC
35	256051	ATGATGGTAAGTTAACCCTGGTTGTCACAAGGGTTGACAAACAA
	256101	CAGGTTATCTGTGTTGCAAAAAACGACCACACAGTTTTCACTAAAAAAAA
	256151	ACTTAACCTACCCAACGCACAGTACTCTATCCCTTTTCTCAGTGAAAAGC
1 0	256201	ATCTGAAGGATATTGACTTTGGTTTAAGCCAAGGTATTGACTATATTGCT
	256251	GCCTCTTTTGTTAATACTGTTGCAGATATTAAACAACTGAGAGATTATCT
	256301	GAAATTAAAGAATGCTAGTGGGGTGAAGATCATCGCTAAGATTGAATCTA
	256351	ATCATGCTTTAAATAACATTGATAAGATCATTAAAGCTAGCGATGGGATT
1 5	256401	ATGGTTGCTAGGGGTGATTTGGGCCTTGAAATCCCTTATTACCAAGTCCC
	256451	${\tt TTACTGACAAAGGTACATGATTAAAGCTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTAACAAGCGTTGTCGCTTTTTTTAACAAGCGTTGTCGCTTTTTTTAACAAGCGTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTTGTCGCTTTTTTTAACAAGCGTTGTCGCTTTTTTTT$
	256501	CTATTACTGCAACCCAAATGCTTGATTCACTAGAAAAAAAA
50	256551	${\tt ACCCGAGCTGAAGTGACTGATGTTTACTTTGCAGTTGATCGGGGTAATGAGTGATCGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGATCGGGGGTAATGAGTGAG$
••	256601	TGCAACTATGTTAAGTGGGGAAACTGCTAGTGGGCTTTACCCTTTAAATG
	256651	CAGTAGCGGTGATGCAAAAGATTGATAAACAATCAGAAACCTTCTTTGAT

	;	256701	TACCAGTATAACGTTAACTATTATTTGAAAAACTCCACGGCAAATAAAAG
	:	256751	TAGGTTTTGACACAACGTTGTTTTACCTTTAACAAAAAAGACTGTTCCTA
5		256801	AAAGAAAACTTGTTAACAGTGCCTTTAAGTATGACTTTATTGTCTATCCT
	:	256851	ACTAATAACATTAACAGGATCTATGCATTATCAAACGCACGC
		256901	AGCAGTTATTATTTTAACCAACAACAACGGGTTTACACTGGCCATGGTG
,	0	256951	TTGATTATGGGATCTTCTGTTATTTAATTGATAAAAACCCCAACCAGCTA
,		257001	ACCAAAGCTGAACTGATTGAACTTGCTTGAAAAGCAATTAACCACTATCA
		257051	GGCTTATGGTGATTTAGAAAAACTCAAACAGTGTTTAGCTGTCTATAATG
		257101	${\tt AAACAATTATCAATCTTTAGATAAAAATTGGTGAGAGTTTGTAAAATATT}$
1	15	257151	$\tt GTACACGGTGCCTTAGCCAAGTGGACTCAAGGCCTGGAGCTGCAACCTCC$
		257201	${\tt ATATCGTCAGTTCGAATCTGACAGGCACCTCCATGTACATGAAAGTTAAC}$
		257251	${\tt TACTCTCCATGTGCAAACGGGAAGTAGCTTAGTTTGGTAGAGCACTTGGT}$
	20	257301	${\tt TTGGGACCAAGGGGTCGCAGGTTCAAATCCTGTCTTCCCGACCAAAAGGC}$
		257351	${\tt TGGATACCTCAGTTGGTTAGAGGGCCCGGTTCATACCCGGGTTGTCGTGA}$
		257401	${\tt GTTCGAGTCTCACTCCAGCCACCAAAGTTACTTAAATATTAAAGGATCTA}$
		257451	${\tt TAGCTCAATTGGTTAGAGCCCCCGACTCATAATCGGTCTGTTACAGGTTC}$
,	25	257501	AAGTCCTGTTAGATCCACCACTTTGCTGTGTTAGAATCATATTTGCCGCA
		257551	${\tt ATTTTGTGGAGACTTACCCAAGCGGCTGAAGGGTTCGGTCTTGAAAACCG}$
			AGAGGTGCTTTATAAGCACGCGAGGGTTCGAATCCCTCAGTCTCCGCCAA
	30	257651	ATAATATTTAATCGCGGGATAGAGCAGTTGGTCAGCTCGTCAGGCTCATA
			ATCTGAAGGTCGAGGGTTCAAATCCCTCTCCCGCAACCATGGTTCCATGG
			TGTAGTGATAACATATCTCCCTGTCACGGAGGGGTTGCGGGTTTGATTCC
			CGTTGGAACCGCCATTGGTCTTGTAGCTCAGTCGGTAGAGCAACGGTCTG
	35		AAGAACCGTGTGTCGGCAGTTCGATTCTGCCCGAGACCACCATTAAAAGT
			TTTTAAAAAAGCCCTAAAAAGGGGCTTTTTTAGTGTTACCACCAATTAAA
			ATATTTTATAGCAAGCAGTTGCATATTTTTAATATAAGTTAGAATTATT
	4 0		GGTATAGTGTCTTCAGCTGTTTAATTCATATTAAAGCGCATGGAAAAAAA
			TAGATCAGCTTTTCAACAAAACCAACCAAGCATCAAACCAACC
			AAGATCAAAACCAGTATTACCAAGATCCTAACCAACAACAATTTAACCAA
			TCTGGTTTTGATCCAAATCAACAGCAATTTAATCAACCAGGATTTGATCC
	45		TAACCAACAATATTATCAAGATCCCAATCAACAACAATTTAATCAAGCTG
			GTTTTGATCAAAACCAACAGTATTACCAAGATCCCAATCAACAGCAATTT
			AATCAACCAGGATTTGATCCTAACCAACAATATTATCAAGATCCCAATCA
	50		ACAACAATTTAATCAAGCTGGTTTTGATCAAAACCAGTATTACCAAGATC
			CTAACCAACAACTTAACCAATCTGGTTTTGATCAAAACCAGTACTAT
		258451	. CAAGATCCTAATCAGCAACAATTTAACCAGCCTAGTTTTGATCTAAATAA

	258501	$\tt CCAACAATTTAACCAACCTGGATTCAACCAATCCCCAGCATTTGAAATCA$
	258551	${\tt CACCTCAAGAGCAAAAAGCTGAACAGGAAATGTTTGGTGAAGAACCACCT}$
5	258601	${\tt CAAGTAGTTAGAGAGATCCATGAACTACCATTTGAAAAGATCCGTTCTTT}$
	258651	${\tt TTTACAAAGTGATTTTGATAGCTATAACTTTCGCTTAAACTCACTTAAAA}$
	258701	${\tt GCAAACTGGATAATGCCTTGTATTCACTTGATAAAACAATCCAAAACACCC}$
10	258751	${\tt AATGAAAACACTGCTAATCTAGAAGCAATTAGACATAACTTAGAACAAAA}$
	258801	${\tt GATTCAAAACCAAAGCAAGCAATTAAGAACTAACTTTGATACCCAAAAGC}$
	258851	${\tt TTGATGATAAGATCAATGAATTGGAGATCAGAATGCAAAAACTAACCAGG}$
	258901	${\tt AATTTTGAATCTCTAAGTGAACTTTCAAAGCACAACTCTTATCCTAATTA}$
15	258951	${\tt CTATGAAAAATTGTTACCAAATGGTGGTGATAGTATGACCAATGTCTTTG}$
	259001	${\tt AAAAAGCACTAATGATGAATTTATTGAGAACTACATTACCCCCTCAACCC}$
	259051	${\tt CAAGTTCAATACTACCCTCAACCCTATCCATACATAAGACCTTACTATGA}$
20	259101	${\tt TGAACCTATTTACGCTGGGTTTAGAAGAAGGGGTTACCGTGATGACTTCT}$
20	259151	${\tt ATGAATAAAAAGCGTGTTTTAACTAATGAAACCATTTGATAAAAAACCTT}$
	259201	${\tt CGCTGCAACCAATTTATGACATTGGTTTTGATGATGGTTATCTCCAAAGT}$
	259251	${\tt GAGTATGAAAAAATCGTTCTAAAACCGATGTTGATAAGATCGAAAACCA}$
25	259301	${\tt GCTTTTAAAAGAGATTAAAAGCCTGGAAGATGAACTTAAAAACCTTAAGG}$
	259351	${\tt GCTTGAAGAATCAAGCAGAAGATAATCCTGAACTTGATAAAAAGATTAAC}$
	259401	${\tt CACTTGGAAGTTGATCTAAACCGTTTGGTTAATGAATATAAAAACTTCCA}$
20	259451	${\tt GTTCCAAAAGAACCACATGGTTGATAAGGTTAGTGAACTTGATAACTTAA}$
30	259501	$\tt CCCGTTTTTATAAGAATGAACTAACCCGCTTACAACAAGAAAACGCTGAT$
	259551	${\tt TTTCTCAACTCCAAGTATGCTAATTTAGCTAACTTCCAAGCTAACTACCA}$
	259601	${\tt CAATAAACTAAATGATTTTCACCGCTTAATAGAAAATCAAAACCAAACCA}$
35	259651	${\tt TTAACCGCTTAAACCAAAAGATTAATGGTAACCAAAATCTGATTGAT$
	259701	${\tt AACGTTGCTTTACTGCAAAACCCCCAACATCACAGTTGAAAAAAAA$
	259751	$\tt CTTACTAAATGTTATTGATCAACTTTACAATGAGCTTGATCAACTTGAGA$
40	259801	${\tt ATCAAAAAAGATTATTAAGTATTGAGTATGAAAATACCTATAGAGAGTTA}$
40	259851	${\tt GTTAGTGCAGATAATGAACTGCAAAATGTTTATGAAAACATCGATCAAAA}$
	259901	${\tt TCAGATCCAGTTTAAACACCCAATACCAAACTTATAGAGATGAGTTAAGTC}$
	259951	${\tt AACTTGAGCGCAAGATCCAGCTCACCAAACAAGAGTTAGTT$
45	260001	${\tt TCAGCACTAAGAGTAAAGATAGATGATGCTGATTTTTACATTAATGCCCG}$
	260051	${\tt TTTAGCTGAACTTGATGATGTAGCTAAACAACTTAGCTTTCAAGATGGTA}$
	260101	${\tt TTACCAAGCAAAATGCTCAACATGTTGAGGATAAGTTAGTT$
50	260151	AAAGAAAAGACCGTTTAAATACCCAAAAAGAGGCCTTTTTTAACTTAAG
50	260201	ACAATCTGCTTTAATTGATATCAATAAACTCCAGCAGGAAAATGAACTGT
	260251	${\tt TTGCTAAGCACTTAGAACACCAGCAAAATGAGTTTGAACAAAAACAGTCT}$

	260301	GATAGCCICITAAAGCIIGAAACIGAATATAAGGCIITACAACACAAGA
	260351	${\tt TAATGAATTTAAAAATGAAAGTGCCACTAAGAGCGAGGAACTTTTAAACC}$
ī	260401	${\tt AAGAACGGGAACTATTTGAAAAACGCAGGGAAATTGACACGCTTTTAACC}$
	260451	${\tt CAAGCATCTTTGGAATATGAACACCAACGTGAGTCAAGTCAACTACTCAA}$
	260501	${\tt AGATAAGCAGAATGAAGTAAAACAACACTTCCAAAACTTAGAGTATGCTA}$
0	260551	${\tt AAAAGGAGCTAGACAAAGAAAGAAACCTCTTAGATCAACAAAAAAAA$
·	260601	${\tt GATAGTGAAGCAATCTTTCAACTCAAAGAAAAGGTTGCTCAAGAACGTAA}$
	260651	${\tt GGAGCTTGAAGAACTATACCTTGTTAAAAAAACAAAAACAAGATCAGAAGG}$
	260701	${\tt AAAATGAACTGTTGTTTTTGAAAAGCAGTTAAAACAACACCAAGCAGAT}$
15	260751	${\tt TTTGAAAATGAATTGGAAGCTAAACAACAGGAGTTGTTTGAAGCTAAACA}$
	260801	TGCATTGGAACGTTCCTTTATCAAACTTGAAGATAAAGAAAAAGATCTTA
	260851	ACACTAAAGCACAACAGATTGCCAATGAGTTTTCCCAACTAAAAACTGAT
••	260901	${\tt AAGTCAAAGAGTGCTGATTTTGAACTAATGTTGCAAAATGAGTATGAAAA}$
20	260951	CTTGCAACAAGAAAACAAAAGTTATTCCAAGAACGTACTTACT
	261001	GGAATGCTGCGGTTTTATCAAACCGGTTACAACAAAAACGTGAGGAGTTA
	261051	TTACAACAAAAGAAACGCTTGATCAGCTTACAAAAAGCTTTGAGCAAGA
25	261101	ACGGTTAATCAACCAAAGGGAACACAAGGAGTTGGTTGCATCAGTTGAAA
	261151	AACAAAAGGAGATATTGGGCAAAAAACTCCAAGATTTTTCCCAAACTTCA
	261201	CTGAACGCTTCTAAAAATTTAGCTGAACGGGAGATGGCAATCAAGTTTAA
	261251	AGAAAAGGAGATAGAAGCAACTGAAAAGCAACTGTTAAATGATGTTAATA
30	261301	ATGCTGAAGTTATCCAAGCAGACTTAGCACAACTCAACCAATCACTTAAC
	261351	CAAGAACGCAGTGAATTGCAAAACGCCAAACAAAGGATTGCTGATTTTCA
	261401	CAATGATTCACTAAAAAACTCAATGAGTATGAACTTAGCTTACAAAAAC
35	261451	GGTTGCAAGAATTACAAACCCTTGAGGCTAACCAAAAACAACATTCATAT
	261501	CAAAATCAAGCTTACTTTGAAGGTGAACTTGATAAACTTAACAGAGAAAA
	261551	ACAAGCTTTTTTGAACTTACGTAAGAAACAAACTATGGAGGTTGATGCTA
	261601	TTAAACAAAGGTTGAGTGATAAACATCAAGCTTTAAATATGCAACAAGCA
40	261651	GAGCTAGATAGAAAAACCCATGAGTTAAATAATGCTTTTTTAAACCATGA
	261701	TGCGGATCAAAAGAGTCTACAGGACCAACTAGCAACTGTTAAAGAGACCC
	261751	AAAAACTAATTGATTTAGAACGTAGTGCACTGCTTGAAAAGCAACGTGAG
45	261801	TTTGCTGAAAATGTTGCTGGTTTTAAGCGCCATTGGTCTAATAAAACTAG
	261851	TCAACTCCAAAAGATTTATGAACTGACCAAAAAACAGGAAAGTGAGCAAA
	261901	. CCCAAAAGGAAACAGAACTAAAGATTGCTTTTAGTGATCTACAAAAAGAC
	261951	TATCAGGTTTTTGAACTCCAAAAGGACCAAGAATTTAGACAAATTGAAGC
50	262001	TAAGCAACGTGAACTTGACAAGTTAGCTGAAAAAAATAATCAGGTCAAAC
	262051	TAGAACTTGATAACAGGTTTCAAGCGCTGCAAAACCAAAAGCAAGACACA

262101 GTACAAGCTCAGCTAGAACTGGAACGTGAACAACACCAGTTAAACCTTGA

	262151	GCAAACTGCTTTCAACCAAGCTAATGAATCACTTTTAAAACAACGTGAAC
5	262201	AACTCACCAAAAAGATCCAAGCTTTCCACTATGAGTTGAAAAAGCGTAAC
	262251	${\tt CAATTCTTAGCTTTAAAAGGGAAAAGGTTGTTTGCAAAAGAGCAAGATCAAAAGAGCAAGATCAAAAAGAGCAAGATCAAAAAGAGCAAGATCAAAAAGAGCAAGATCAAAAAGAGCAAGAATCAAAAAAGAGCAAGAATCAAAAAAAA$
	262301	ACAACGCAAAGATCAGGAGATCAACTGACGCTTTAAACAGTTTGAAAAGG
10	262351	${\tt AATATACTGATTTGATGAAGCTAAGAAAAGGGAACTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAAAAGGGAACTTGAAGAGAGCTTGAAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAGGGAACTTGAAGAGAGAAAAAGGGAACTTGAAGAGAGCTTGAAGAAAAAGGGAACTTGAAGAGAGCTTGAAGAGAGAG$
	262401	AAGATCAGAAGAAGTTTAAGTCAAAGCAACGTTGAATTAGAGAGAAAAAG
	262451	AGAAAAACTGGCTACTGATTTCACTAATTTAAATAAGGTTCAACACAACA
	262501	$\tt CCCAAATTAACCGTGATCAACTTAACAGTCAGATCAGACAGTTCTTATTAGTCAGACAGTTCAGACAGTTCTTATTAGTCAGACAGTCAGACAGTTCTTATTAGTCAGACAGTTCAGACAGA$
15	262551	GAACGCAAAAACTTCCAACGCTTTAGTAATGAAGCTAATGCTAAAAAAAGC
	262601	CTTTTTAATTAAGCGCTTAAGAAGCTTTGCATCCAATCTAAAACTCCAAA
	262651	${\tt AAGAAGCGTTAGCAATCCAAAAACTAGAGTTTGATAAGCGTGATGAACAAAAACTAGAGTTTGATAAGCGTGATGAACAAAAAAAA$
20	262701	CAGAAAAAAGAGTTACAGCAAGCTACTTTACAACTAGAACAGTTCAAGTT
	262751	TGAAAAGCAAAACTTTGACATTGAAAAACAACGCCAACTAGTTGCTATTA
	262801	AAACTCAGTGTGAAAAACTTAGTGATGAAAAAAAGGCACTAAACCAAAAG
	262851	CTAGTTGAACTAAAAAACTTATCCCAAACCTATCTTGCTAATAAGAATAA
25	262901	GGCTGAATACTCCCAGCAACAACTCCAACAGAAATACACCAATTTACTTG
	262951	ATCTGAAGGAAAACTTAGAGAGAACCAAAGATCAATTAGATAAAAAACAT
	263001	${\tt CGTTCTATCTTCGCTAGATTAACTAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTGCAAATGACTTACGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTGAAGTTTTTGAAGTTTTGAAGTTTTGAAGTTTTTGAAGTTTTGAAGTTTTGAAGTTTTTT$
30	263051	AAAAAAGCAACTGTTAAAAAGCACAGCGCATAGTTGATGATAAAAACCGTC
	263101	TTTTGAAAGAAATGAACGTAACCTCCATTTCCTTTCCAATGAAACAGAA
	263151	CGAAAACGAGCAGTTCTCGAAGATCAAATTTCTTACTTTGAAAAACAACG
	263201	TAAACAAGCTACTGATGCGATCCTAGCATCACATAAAGAAGTTAAAAAAGA
35	263251	AGGAAGGTGAACTGCAAAAGTTACTGGTTGAATTAGAAACAAGAAAAACC
	263301	${\tt AAACTCAACAATGATTTTGCAAAATTCTCAAGACAACGTGAAGAGTTTGAAGACTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTGAAGACAACGTGAAGAGTTTTGAAGACAACGTGAAGAGTTTTGAAGACAACGTGAAGAGAGTTTTGAAGACAACGTGAAGAGAGTTTTGAAGACAACGTGAAGAGAGTTTTGAAGACAACGTGAAGAGAGTTTTGAAGACAACGTGAAGAGAGTTTTGAAGACAACGTGAAGAGAGAG$
	263351	AAACCAACGCTTAAAGCTCTTGGAACTGCAAAAAACCCTGCAAACCCAAA
4 0	263401	CTAATTCCAACAACTTTAAAACCAAAGCAATCCAAGAGATTGAAAACAGT
	263451	TATAAAAGGGGGATGGAAGAACTTAACTTCCAAAAGAAGGAGTTTGATAA
	263501	GAATAAATCACGCTTATATGAATACTTTAGAAAGATGCGTGATGAGATTG
	263551	AAAGAAAGGAAAGTCAGGTTAAGTTAGTTTTAAAAGAGACCCAAAGGAAA
4 5	263601	GCCAACCTCTTAGAAGCACAAGCCAACAAACTTAACATTGAAAAAAACAC
	263651	TATTGACTTTAAAGAAAAAGAGTTAAAAGCCTTTAAAGATAAGGTTGATC
	263701	AAGACATTGATTCAACCAATAAACAACGCAAGGAGTTAAATGAGCTTTTA
50	263751	AATGAAAACAAGTTATTACAACAATCACTAATCGAAAGAGAAAGGGCTAT
	263801	TAATTCCAAAGATTCACTTCTAAATAAGAAGATAGAAACGATTAAACGCC
	263851	${\tt AACTCCATGATAAGGAGATGCGGGTGTTGCGCTTGGTTGATAGAATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAGATGAAAGGAATGAAAGGAGATGAAAGGAATGAAAGGAGATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAAGGAATGAAAGGAATGAAAAGGAATGAAAAGGAATGAAAAGGAATGAAAAGGAATGAAAAGGAATGAAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAATGAAAGGAAGAAGAAAGAAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAA$

	263901	TTAGCAGAACAGAAATACCAAACAGAAATCAACCGCTTAAGAACCCAAAC
	263951	TTTCGATTCTGAAAAACAAGACATTAAAAACTTCTTCCCACCGTTATTTA
5	264001	AAATTAACGGTAATGATATGGCCTTTCCTTACTTGTACCCCTGACTATAT
	264051	CCTCAACAAAGCAAGATGATAATACTCTGCAAATTCGTCAGCTTTTTGA
	264101	ACAGCAGCTGCAGTTCATGCAACAACGCTATGAAAATGAGTTAAATGAAT
	264151	TGCGTAGACAACGTAATTTACTTGAGAAAAAACTTGATCAAATCCAACTA
10	264201	GAATCCCAACTTAATAATAAGCAAAGTGAGTTTAGTAAGGTGGAATCAAT
	264251	GATGGAAAAACTGAGAGAGTAGGTTAAATGATTTTGATC
	264301	AGAAAATTAACTATCTCACCAAGAAAGTTAACCAACACACAC
15	264351	${\tt CCAAGTTCCTATCAACCAACTCCTTCTTATCAAGACAGTGATAAACAACA}$
	264401	${\tt GTTGTTATTTAGAATCCAAGAACTGGAAAAACAAAACTTATTCCAACAAC}$
	264451	${\tt AATTTCAACCTGCACCAGCTGTTGTCCAACAACCTACTAGTTTTGCAGCC}$
	264501	CCTAACATCACCAAACAACAGCAAATTGCCCAACTTAATGCTGAAATTAA
20	264551	${\tt CAACATTAAAAGGTTGATTGCCCAAAAAGCAGCAAGTAAATAAA$
	264601	TAATAATGAATATCAACAACTAAACACTTTAGTTGAGAGTGATGAAG
	264651	${\tt CGGATCTTGTGATTGCTAACCTAGTTAAACAACTCAATGAACTAAAGCAA}$
25	264701	ATCCTTGTTTCACTAGATAATCAAGAAGCAAGTGCCACTGCAGTTACTGA
	264751	TAAAAAGGAAGAGGAATACAACCAAAACCAATCCAGTTTCCATAACTTCA
	264801	GCAAAGAAACACTGCAAAAGCAAGCAAAACGTGGTTTTCTTTTACTGGAA
	264851	${\tt CGCTGTTCGTTGGTTGGGTTACAACAACTAGAGTTGGAGTATGTTAATTT}$
30	264901	GTTGGGCAGAAGTTTTGATTCTTATCAACAAAAACAGAGCTTTTAAACA
	264951	ACTTAAAGGAGCTTGTTGATGAACATTTCAGTGATACTGAAAAAATTATC
	265001	AATACCCTTGAAAAGATCTTTGATGTTATTGGCGGTAGTGAATATACCCC
35	265051	TGTCTTAAACTCGTTTTTTAACAAGCTTTTAAGTGATCCTGATCCAATCC
	265101	AACGGGAAATTGGCTTAAGACAATTTATCATCACTCTCCGTCAGCGCTTT
		AAAAAGTTATCACAAAAGATTGACAGTTCTCTCAAACAGATAGAAACAGA
		GGCTAAAATAGCCACTGAACAGGTTCAAAATAGTGAAGTGATGTTCGGTC
40		. CCCCTGATATTGCTAATGATCATGAGTTAAACCTGAACTGACCTGATAGT
		GAAACAGATGCTATCTTAAGTTCAATGGAAAATGAATTGGAAGCTGCTTT
45		ATTAGCAAAACACCAAGAAGAACCACCGTTAATTGTTACCCCACCCA
		TAATAAAACCAACTGTTAGTCAACCTGAAGTTGAAGTTGTTACACCTACT
		L AACAACACTAATTTCCAACCCCAAGTTGATCTCAAACCTACTGATTTGAA
		L AAAACAACAGAAGAAAAAACCACTTAACTTTATTACCCGTCCTGTTTTCA
50		L AAAGTAATTTGCCACCGAAACTAAGTAAGGATGACATAGTTCATTATGCG
		L CACCAGTTACTTGAAAAAAATACCCATAATGAATAGTGATAGTGATCTAA
	26565	1 AACTCCAAAAGGTGTGGATCGAGCGGCATGTTGATCAAGATGAACTTAGT

	265701	${\tt TTAACAACTACTGCAGTTGAACTTAAAAAGAGTGATGAACAAAAACCTGT}$
	265751	${\tt TGCCATTAAAAGTAGTGACTTTATTGGTCATGAAGAGTTAATCTCTGTTC}$
5	265801	${\tt CAGTTTTACTAATCCCAACCCCTGTTGTTAAAGAGATTGATCAACCAGCA}$
	265851	$\tt GTTATTCCTCCAGTTAAAGCAAAACCAAAAGCAACTAAAAAGAAAACTCC$
	265901	${\tt TGTTAAATCAAAACCAACTAGTAAATCAACTAAACAAACA$
10	265951	${\tt AATCCAAGCCCAAATCAAAACAAGTTCAACAAACCAAAGCTAAACCAACC$
	266001	${\tt CAAATTCAAACAAAAAAAAGCAATAAAAAAACCAGATCTTAATCTGGTTT}$
	266051	${\tt TTTTAGTGTTAACAACAGTAGTTTTAACTAAAAACTGGAAAGGAATAGGA}$
	266101	${\tt AGAACTACCTGGGGTTAATCCTAGTTTAAACCGTGCGGTGTTAAAGTAAT}$
15	266151	${\tt TGCTTTTAGAGCGATAACTATTATTTTTATTCTCATTATCATCATCAGAA}$
	266201	${\tt CCATTGGCATTAGCTGTGGTACTTTGAAAAATGTCATTTACTGCATGTGC}$
	266251	${\tt AACCCCAGTAAGTGCATTAACTATCATAATAAGTCCTGCACTAAAAGTTC}$
20	266301	${\tt AGAAAGATAATCCACCAACAACTTGCTTAGCTTGTGCTTTTCTAATTTA}$
20	266351	${\tt TACATATAACTCCTTTTGTCTATTAATCACATCTAAATCTAAAAGTGCCA}$
	266401	${\tt AAGTTTTATAATTGATCAACTGTCATCATAGCTCAATAGGACAGAGTATC}$
	266451	${\tt AGCTTGCGGAGCTGAGGGTTACAGGTTCGATTCCTGTTGGTGACGCCATT}$
25	266501	${\tt AACTTTATTTGCCTATCAGTTAAATAACTGGTAGGCTTTTTTTT$
	266551	${\tt GTAGTTTATCAAGGGTTAATTTAAGTTGTAGTCATTTCATTTTGGACAAA}$
	266601	${\tt AAGAAATTTTTATGCTAAGATAAAAGTGTTTAAAAGTGTCGCAAAGTGTG}$
20	266651	${\tt ACAAAGTGGAAAAAATGCTGCTAGGTACCTTTAATCTTACCCTTGATAAC}$
30	266701	${\tt AAGAACAGAATTAGCTTGCCAGCTAAGCTCCGTAGTTTCTTTGATAGCAG}$
	266751	${\tt CATAGTTATTAACCGCGGCTTTGAAAACTGTTTGGAAATTAGAAAACCTG}$
	266801	${\tt CAGACTTTGAGAGTTATTTTCAAACCTTTAATAACTTCCCTAACACCCCAA}$
35	266851	${\tt AAAGACACAAGAACATTAAAACGCTTAATCTTTGCTAATGCTAATCTAGT}$
	266901	${\tt TGAACTTGATAGTGCAAACAGAATCCTAATCCCTAATAACCTAATTAGTG}$
	266951	${\tt ATGCTAAGTTAGATAAAGAGATCGTGTTAATTGGTCAATTTGACCATCTT}$
40	267001	${\tt GAAGTTTGGGATAAAGTGCAATATGAACAATATCTAGCTAG$
40	267051	${\tt ACTAGAGACAGTAGCTGAAAGGATGAAAGATGCTAAATAACCAACAGATC}$
	267101	${\tt CACCAGAGTGTACTGATCAATGAAGTGATCCATAACCTCAATATTAACCC}$
	267151	${\tt TTGTGGTAACTATTTAGATCTAACTGCAGGGTTTGCAGGACACAGTCAAA}$
4 5	267201	${\tt AGATCTTAGAAAAACTAACAACAGGAACTTTAACAATTAATGATGTTGAT}$
	267251	${\tt AAAGAAAGTATTAATTTTTGCCAAAAGCTTTTTTTAAAAACAACAACGT}$
	267301	${\tt TGTTATTATTCACGATAACTTTGCTAACTTCCCAGTTCATCTTAAACAAC}$
	267351	${\tt TATCAATAACCAAGTTTGATGGGATCTTAATGGACCTTGGTGTATCAAGC}$
50	267401	${\tt CATCAACTCAACCTAATCGCGGTTTTAGTTTTAAGAATGATGGACC}$
	267451	GATTGACATGCGTATGGACCAATCCAATCAGAAAAATACCGCACTAACAG

	267501	TTTTAAAAAACTTAACTGAACAAAAGTTAAGTCTAATCCTTAAAAGTTAA
5	267551	${\tt GGTGATATTAAACACCCTAAACCAATTGCTATTGGATTGAAAAAAGCAGT}$
	267601	${\tt TCAAACTGAAAAAAATCTTACCACAACTCAACTAGCAAAAGTGGTAAAAG}$
	267651	${\tt AATGTGCTACTGGATTTGAAAAATACCAATCAAGAAACTATCTTGCCAAA}$
	267701	${\tt GTTTTTCAAGCAATTAGGATCTATCTTAATGATGAGATTACTAATCTGAA}$
10	267751	${\tt AACTGCGTTAACTTTTATCCCTAATCTTTTAAAAAACAACAGCAGGTTTC}$
,,,	267801	$\tt TTGTGATTGTTTTTCACTCCATTGAAGAAAAATTGTAAGGAATTTCATT$
	267851	${\tt GCAAAACTAACCAGCTTTATCCAACCTGAAGCTCTACCCATTAAACTCAC}$
	267901	TCCTGCTTACCAGTTAATTACAAAAAAACCAATCCTACCTTCCCAAAAAG
15	267951	AACTTGAATTAAACCCGCGTTCGCGTAGTGCCAAACTCTTTGTTATCCAA
	268001	AAAAACTAGTATGTACAAACCAAAAAATATTAACAGCGTATTAACCTTTT
	268051	ATAAGGATCAGATCCAACTGGTTGTTAGTGATGATCAAAACCAGTTCAAC
20	268101	ATCTTGTTTTACCAAACAATTGATAACGATGGCTTTTATTCAAAACAACA
20	268151	GTTGAAAACAAACTAAGACTCAAGTTAGCATTAAACCAACTAGTTGATC
	268201	AAGCTAACTATTTCTTGGTTTTAAACTGGAAAAGGTAGTTGTTCTC
	268251	GCTGAACTGATTGATGATTTGAAGATCCATAATTTCAAGAGTGAGATCTT
25	268301	TTTTACTGGTTATGATTTTGATCATAAAGCGATGATTAAAAAAAGAAAAAC
	268351	AACGCTTTTGTGAGCAAAATAACCAACTAACAGTTATGGATACAATGGTT
	268401	TTAAACTACCATGATGTTATTAACAATAAGATCACCAAAAGCTTTGCATT
30	268451	TAACAAGAGCTATGTAGCTAATTTAGTGGCATATTCCTCTAAAAGTAACC
30	268501	TGATCGGGGAGTTGAAGTTCTTTTTAAAAAGAAACGTTAATCTTAAGGTT
	268551	AAGAAAATTATTAGTCACCACTTAGCATTAGCCAACTCCTTAAGTAAG
	268601	ACAAAACAACATGTTTGTTTATTTAGGACAAAAAACTACTGAACTGATGC
35	268651	TATTTATGGACAATGCTTTAGTTGATGTTATTACCAACCA
	268701	ARCCACTTTATTGATATTCCAGCTARCCAGGAAAACAAACCACTGCTTGA
	268751	. GTTTTTAGTTGATAACACCACTAAGATTGGTGATTGTTATTCGCTTGGTA
40	268801	TGACCTATACAGATGGTGATAGTTACAAAGAGATTAAGGCTTTGACTATT
40	268851	GGTGATTTAATGCAAACAGTTAGTGACAAGATCAAAACCTTAATTGATTT
	268901	TATTAACAGTGGTTCTCTAACTTTTTTCAACAAGTTTAAAACCTTACCTA
45	268951	L AGCTATTGTATTTTATACAAGATCAAAACAAATTACCAACCTTTTTCAA
	269001	L GCTAATGTTGCACTTATCAATCCCCAGTTTAAAACTGTTGATATTTATAA
	269051	L GAACAAGATCCAGTTTATTAGTGAAAACTACCTGTTAAGCTGTGAAGCGA
50		1 TTAGCTTGCAGATTACCAATAGAATCAAAAACCAAATTAGTTTTGATTTC
		1 ACAAATGCTGATAATATTCAAAAACCTAAACCAAAAAAACACTTCATGAT
		1 CTTATCAAAACACCTAACAAAGTTTGTCCAACGCTTGGTTAAATAACTAT
	26925	1 GGATGAAAATGAAACTCAATTCAACAAGTTAAACCAAGTTAAAAACAAGG

	269301	IGAAAA11661611111666A1166A6166166166116116
	269351	GCATCACTTTATCACTATCCTAATTTAGCAAGTGAAAACATCCACTTTTA
5	269401	${\tt TGCTATAAATTCAGATTTACAACACCCTTGCATTTAAAACGAATGTTAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAACGAATGTTAAAAAAACAACGAATGTTAAAAAAACAACAACACACAC$
	269451	ATAAACTCTTAATTCAAGACCATACTAACAAGGGCTTTGGAGCGGGGGGT
	269501	GATCCAGCTAAAGGAGCTAGTTTAGCAATAAGCTTTCAAGAACAGTTTAA
10	269551	TACACTTACAGATGGGTATGATTTTTGTATCTTAGTTGCTGGATTTGGTA
	269601	${\tt AGGGTACTGGTACAGGTGCTACCCCAGTTTTTAGCAAGATCTTAAAAACT}$
	269651	AAGAAGATCTTAAATGTTGCTATTGTTACCTATCCATCTTTAAACGAGGG
	269701	ATTAACAGTGAGAAACAAAGCCACTAAGGGGCTTGAAATTCTCAACAAAG
15	269751	CAACTGATAGTTACATGCTATTTTGTAATGAAAAATGTACAAATGGTATC
	269801	TACCAACTAGCAAACACAGAGATAGTCAGTGCCATTAAAAACCTAATAGA
	269851	ACTAATTACTATTCCTTTGCAGCAAAACATTGATTTTGAAGATGTACGTG
20	269901	CCTTTTTCAAACCAAAAAACTAACCAAGATCAACAGCTTTTTACTGTT
	269951	ACTCACCCCTTTAGTTTTAGCTTTGATAGTAAAGATAGTATAGAACAGTT
	270001	TGCTAAACAGTTTAAGAACTTTGAAAAAGTTAGTTATTTTGACCACTCTA
	270051	TAGTAGGAGCTAAAAAAGTGTTATTGAAAGCTAACATTAACCAAAAGATA
25	270101	GTCAAGCTTAACTTCAAGCAGATCCAAGATATTATCTGAACTAAAATTGA
	270151	CAACTACCAACTTGAGATTAGGTTAGGGGTTGATTTTGTGACAACCATCC
	270201	CTAATATCCAAATTTTTATCCTCAGTGAACACAAAAATCCAGTTTCGCTT
30	270251	CCCATTGATAATAAATCAACTGAAAACAACCAAAATAAGTTGAAACTTTT
	270301	AGATGAGCTGAAAGAACTTGGCATGAAATATGTTAAGCACCAAAACCAAA
	270351	TCTACTAATTAATTTAATTTATCGTTTAGAATTGCTATCTTAAGCAATAG
	270401	TTTATGGGTCAAATCAATCGGAAGTTTAGCGAAAAGCAGTTCTTACTTTT
35	270451	TGTTGTTAACTATATTGCTGGATTTGGCTTTATTGCTACTGCTATCTCAC
	270501	TGTTTCGCTTAGGACCTTTTTCTTGGTTAATCTTTCTGCTTAGCTTA
	270551	GTTAGTTTAATTGTTACCTTATCATTCGCACGGCTTTCATCAATAGATAG
4 0	270601	TCAAAACTATGGTGGGCCTTATCTTTGGGCTAAGAAAGCGGTTGATAAAG
	270651	AGAAGATAGCAGGGAGAATGTTTAGCTTTTTTACGGGGTGAAATAACTTT
	270701	ATCATTGGTCCTCTTTCAGCAGCAACTGCACCACTTTTTATCCTCAATTC
	270751	CTTTAGTGGTATTGATGGGATTAGAGGTAACTTAGTTAACACTTGAATCC
45	270801	TAATTGCAATAGGTTTTTCTTTTTATGTATTACTAGCATTTATCTCAACC
	270851	AAAGGAACCTCACTAAACAAGAAACTAATAGCACTATTTGCTTCAGTAAA
	270901	GTGGATTGTGATCCTCTCAGCACTAATAGTAGCAATCTATGTTATTGCTA
50	270951	GAGATGGTAATGGTTATAGTCAAAACAATAACTTAGAAAGTGGTTTTTTT
30	271001	GGGAGAAGAGATTAGTTTTGCACAGATAGCAACGGTATTTATT
	271051	CTTTTATTCTTATGCAGGGGTTGAAGATATCTCAGTGATGACTCCTGATG

	2/1101 TIAAAACIAATAACTI TAGAAAGATATTAATTOTOTOTOTOTOTOTOTOTOTO
	271151 TTCCTCTTTTATTTCATTGGGATTATTATTCTAAATGGTTTGCAAAACAT
	271201 TGCTCAAAGAGGTGGGGAAGCCAATTCAATTGGTAATGTAGCGGATATCT
	271251 TTAAAAAAGCTGCTGGGCTTGGGACTTTAATCTTTTATGGAGTTGGAGCA
	271301 TTGTTTAACAATGTCTCAACCAGACTTTCAACTATTATTGCCAACTCCAG
0	271351 AAAGATTCTTCCGCTTGCTTATGATAACTATTTACCTAGTTTCTTTTACA
	${\tt 271401} \ \ {\tt AGCAAAACAAAAAGGTGAGTTTCAGAATGCAATTTGGTTTACCTTTGGT}$
	${\tt 271451} \ \ {\tt ACTACTTAATTGCAATGACTTTGCTTGTCTTTATCCCTTTAGTTGCTTC}$
	${\tt 271501} \ \ {\tt TAACTTTGATTTTGATAATGCTACTGAGTATGCAGCATCTGTTGGCTCAG}$
15	271551 CTGCAACTTTGCTACAATATTTTTTTTTTTTTTTTATAATCTTTAAGTTT
	271601 ATCTATAAAAAAGAACCACTCTACCAGAAAAAATGGGTTAAAACAACTGA
	271651 AGAATTATTGTTTTGGGAACAATTGTCATTGTTTTAATGTTGTTGG
20	271701 TTTATCTGTTTCCTGTTATAGATGGATTTTCAAAATGGGAAACTAAACAC
20	271751 ACATTAACAATTGTGTTATATGGGGTTTTAAGCCTGATAGGATTGGTACT
	271801 TTTTTTGCTCCAAGAATACAAACATAAAAACAAGCAAAATGCAAACAAA
	271851 AAACAACCCAAACAACAGTTTAGTGAAAAGCAATTCATTGCTTTTGTCTT
25	271901 TAACTATATTGCTGGATTTGGCTTTATATCAGTGGTGATGACCATGTTTG
	271951 ATGTTGGGCCATTTTCCTATCTTGTTTTAGGGTTAACTTCGTTTGCTATT
	272001 TTAGGAGTTGTGCTTTCTTTTTCTCGCCTTTCAGTTCTCTGTGGTAATAG
20	272051 TGCTTATGGAGGGAGTTATTTAATTGCTAAAAAAGCAGTTGGTACTAACA
30	272101 GTAAAACAAAAAGGTTTTTTTGTTTTTTTAAGTGGGTGGAATGTATCGTTA
	272151 ACAGGATCTTTTAACGGTGTTGTTATTCCAGCAGTATTAATCTTTTCCTT
	272201 TGCAGATATTCCAGTAGTTAAAGCGAATAATAACATCATTATTGGCCTTT
35	272251 TAGTAGGTGGGTTTTTGTTGTTTGGCTTACTTACTTTTATCTCGTTATTT
	272301 GGTTTAAAAATTAACAAGAAAGCAATCTTTTATTTTGCTGTTATTAAGTG
	272351 GATAGTAGTAATAGGTGGGTTTATCTTAGGGATCTATTTAATTGGTACTA
4 0	272401 CCAATGGTAAAGGTTTTGTTGAAAACAATTTAATTGGGACTAGGGAAAAC
40	272451 ATTGATTTTTCAAGATTATCTTTATTAGTCTGGCTTTAACCATTGCTTT
	272501 TGCAGGGACAGAGGATTTAGCTTCGATTACTCCTGATGTCAAGTCAAATA
	272551 ACTTAAGAAAGTGTTTTTTAATTGCCTTTGGGTGTGTTGTGTTACTTTAC
4 5	272601 CTAGTTGGGTTTGTTATTATCAGTGGACTTGATGGGATTAGAGGTTATGG
	272651 ATTAGCATTAGGTAATAAAGATCCCAAGGCAATTAATAACTATGGATCTA
	272701 TCTACCGTTTGGTAGGAGGAGTTCCTTTACTTGTTATCTATGGACTTGGG
E0	272751 TTACTTGTCAATTCCTTAGCATCACGCCTATCAATGACAATTACAACAGC
50	272801 TAGAAAATATGTAGCTTTAGCTCAAGATGGGTTTTTACCCTCTTTTTTAG
	272851 CAAAAACTAATAAACATAATGAGTATCATCATGCAGTTTTAATTAGTAAT

5	272901	$\tt CTAATGACTTTATTAGTGATGCTAATTATGGTAATAATCCCCTTTTTACC$
	272951	${\tt AGACCATAACAATAACAATAGTTTGTTTAATGCTATTGAACAGTTGG}$
	273001	${\tt TTACAGTTACCATTGAAATGGCTGCAGCCATTTCTTTGATCCAATACTTT}$
	273051	${\tt ATTACCTTTATCTTTTTTTTTTTTTTTTTTTTTTTTTT$
	273101	${\tt GTTAATTCCCTTGTGAGAAAAGGTTAGTTATGTAATTAGCTTTGG}$
10	273151	${\tt TAAGTGTGTTGTTGTACCACTTTTCCCTTTTAATCAGTGAACAGTG}$
	273201	${\tt TTTAACACCTTTAAGATAGTTGTTCTAATTTGTTTTTATCTACTTGGTGT}$
	273251	${\tt TGGTTTTTTGGTTATGCTGAATGGAAAAATAAAAACAAATACCAATTAA}$
	273301	${\tt TGAATAACAATAGCTAATCTACAGTTCATTAAGCGAAATTGCTTTTGAAT}$
15	273351	$\tt CGGCAACAACAACCCTTCTCCAACTCCCCCTCCCCTTCAACTTCCGCTT$
	273401	$\verb CCTCTTCTACCCCCCTCCCCACTTTTTCTAACATCAATGTTGGGGTTAAA \\$
	273451	${\tt TCAATGATCACTCAACATTTAAATAAAGAAAACACCCGGTGGGTG$
20	273501	${\tt ACCTAACTTTCACCTGACATCTGAACAGGAGCAGGGTATCGCAAACAAG}$
	273551	${\tt GTAACAATAATGGCATCTCCTTGACCAGGTGAAACCTAGTAGTAGTAGCA}$
	273601	${\tt ACACGTTTAATCCCAATTCTTCTGATAATAAAGTCACTCAAGGTGGTGGC}$
	273651	${\tt TCCCCAGCCAAAAAAAACAACCACCTATCCTGCTTTACCAAACTCCATCAG}$
25	273701	${\tt TCCCACCAGTGACTGTTAAAAATGTTTATTAAAAAAACAAAATAAAAAGCG}$
	273751	${\tt GTTTTATACAATGTATAACCTGTCTAAAAGACAATTTCATGAAACAGTAT}$
	273801	${\tt TTAGATTTAGCTAGTTATGTTTTAGCAAATGGTAAAAAAAA$
30	273851	${\tt TACAGATACAGATACTTTAAGTGTCTTTGGTTACCAGATGAAATTTGACC}$
30	273901	${\tt TTACTAATAGTTTTCCTTTATTGACAACTAAAAAGGTTAATTGGAAGGCA}$
	273951	${\tt ATTGTCCATGAATTGTTGTGATTTATTAAGGGTGATACCAACATTAAGTA}$
	274001	${\tt CTTAGTTGATAATGGGGTGAACATCTGAAATGAATGACCATATGAAAACT}$
35	274051	${\tt TTAAAAAATCACCAAGTTTTCAAAACGAAACACTCCAAGAATTTATCTTA}$
	274101	${\tt AAGGTTAAAACTGATAATGAGTTTGCTAAACAATTTGCTGATTTGGGTCC}$
	274151	${\tt TGTTTATGGCAAGCAATGACGTAATTTTAATGGTGTTGATCAACTCAAAA}$
40	274201	${\tt AAGTCATCCAAGAGATTAAAGAAAATCCCAACTCAAGAAGGCTAATTGTC}$
40	274251	${\tt TCAAGCTGAAACCCTAGTGAATTGGAAAAAATGGCATTGGCTCCTTGTCA}$
	274301	${\tt TTCACTCTTTCAGTTCTATGTTGAAGAAGATAAACTAAGCTTACAGCTTT}$
	274351	${\tt ACCAGCGCAGCGGTGATATCTTTCTTGGTGTCCCATTTAACATTGCATCT}$
4 5	274401	${\tt TACGCCTTACTTGTGTATTTAGTTGCTCATGAAACTAAGTTAAAACCTGG}$
	274451	${\tt TTATTTATCCATACACTAGGAGATGCACATATCTATGAAAACCACATTG}$
	274501	${\tt AACAAATTAAATTACAACTAACAAGAACCACTAGACCCCCTCAAGTG}$
F.O.	274551	${\tt GTTTTGAAAAGTGATAAATCAATCTTTGCTTATAGTTTTGATGATATTGA}$
50	274601	${\tt GTTAGTTGGTTATAATTACCATCCATTTATCTATGGGAGGGTTGCAGTTT}$
	274651	${\tt AATGCTAATTGCTATCTGAGCGATGACACAAGAAGGACTAATAGGTAATA}$

	274701 ACAACACTTTACCTTGGATGATTAAACAAGAGCTAGCTCACTTTAAAAAA
	274751 ACTACGTTATTTCAAGCTTTGTTAATGGGGAGAAAAACTTACGAATCACT
	274801 CCCCAAGGTATTTGAAAAAAGAACAATATTTCTCCTTTCAAAAGATCAAA
	274851 ACTACCGTTTTGAAGAAAAGGGAAGTGAAAGTTATTAATGATTTT
	274901 TGACCACTAATTAAAAGTTACCAAGCAAATAAAGAAAAGGATTTGTTTAT
0	274951 TTGTGGTGGAAAAAGTGTGTATGAACAGACCATTAATGAATG
	275001 TAATTGTTTCAATCATTAAAAAGAAGTATAAGGGTGATCAGTTTTTGAAG
	275051 GTTGATCTCAGTAAATTTGTACTTAATGAAGTTGTAGAGTTTGAGGAATT
	275101 TAATGTTAATTATTATAGAAAGAAACAACAATAAGAGATATGGCAGCTAA
5	275151 CAATAAAAGTACTTTTTAGAATCATTTTCCCCCACTTGGGTATGTAAAGA
	275201 ATAATTTCAGGGCAACTTACGTTCTGTAAACTGGAATTTGGTTGATGAT
	275251 GAGAAGGATTTGGAAGTGTGAAACAGGATTGTTCAGAACTTTTGGTTACC
00	275301 TGAAAAGATCCCTGTATCCAATGACATCCCCTCATGAAAGAAA
U	275351 AGGATTGACAGGATCTGATCACTAAGACCTTTACTGGTTTAACACTACTT
	275401 GATACTATCCAAGCTACCATTGGTGACATCTGTCAAATTGATCATGCTCT
	275451 AACTGATCATGAGCAGGTTATTTATGCAAACTTTGCTTTTATGGTAGGGG
25	275501 TACATGCCCGTTCCTATGGAACGATCTTCTCAACTTTATGTACATCAGAA
	275551 CAGATTAACGCTGCTCATGAGTGGGTTGTAAACACTGAAAGTCTCCAGAA
	275601 AAGAGCAAAGGCATTAATCCCTTACTATACGGGCAATGACCCGTTAAAAT
	275651 CAAAGGTAGCAGCTTTAATGCCTGGGTTTTTACTGTATGGTGGGTTT
30	275701 TATTTGCCTTTTTACTTGTCATCAAGAAAACAACTACCAAATACATCTGA
	275751 TATTATCCGCTTAATCCTTCGTGATAAAGTGATCCATAACTATTACAGTG
	275801 GTTATAAATACCAACGTAAACTAGAAAAACTCCCTTTAGCAAAAACAAAAG
35	275851 GAGATGAAAGCATTTGTTTTTGAACTAATGTATCGGTTAATTGAACTTGA
	275901 AAAGGACTATTTAAAAGAGCTTTATGAAGGGTTTGGAATTGTTGATGATG
	275951 CCATTAAGTTCAGTGTTTACAATGCTGGTAAGTTTTTACAGAACTTAGGT
	276001 TATGACTCCCCGTTTACTGCAGCAGAAACCAGGATTAAACCAGAGATTTT
4 0	276051 TGCCCAACTATCAGCACGTGCTGATGAAAACCATGACTTTTTCTCAGGAA
	276101 ACGGTTCGTCGTATGTGATGGGAGTTAGTGAAGAGACAAATGATGATGAT
	276151 TGGAACTTTTAAGTTATGCATAAAGATATCAAACTAGTTAAGGAAACTGA
45	276201 AATTAGAAAACCAATTGGTTCTCCTTTTATTGTCTATTTTCATCTATCT
	276251 CCAACAACACCCACCGTTTTATTGAAAAACTGGGTTTTCAACACAAAAGA
	276301 ATCCCAGTTGATATAACCCAAAGCATTACTGTAAGTAATGAGTATGTTTT
50	276351 AATCTGTCCAACTTATAGTGGTGGGGGTAACCAGGTTGAAGGAGCGGTAC
	276401 CCAAGCAAGTTATCCAGTTTTTAAATAACAAGCATAACAGGGAGTTATGC
	276451 AGAGGAGTTATTGCATCTGGTAACACTAATTTTGGAGATACTTTTTGTCT

	276501	${\tt TGCAGGAACTGTTATTTCCAAAAAACTAAACGTCCCTTTGTTGTATCAGT}$
	276551	${\tt TTGAACTTTTGGGAACAAAAAATGATGTAGAACAAACCCAAAAAATAATT}$
5	276601	${\tt GCCAATTTCTTTCAAAACAGCAACTAGTATTTATAGTTATCCACTATGAC}$
	276651	${\tt ATCCAAAGAAAAAATCCCTACTTTTAATACTGAAGAAGATGTTGAAAGTT}$
	276701	${\tt ACATTTCTTTTAATGCCCAAGCCAAAATCTATGATGATTTTGCAATCGAT}$
10	276751	${\tt TTACAAGCAGTTGAAAGCTATATTCAAGAGCATGTAAAACCCAAAACTAA}$
	276801	${\tt GGTCTTTCATTCCACCAAAGAACGCCTTGATTTCTGATTAAGAACGATT}$
	276851	${\tt ATTATGATGAGAAGATCATCAACATGTACAGTTTGAACAGTTTGAAGAG}$
	276901	${\tt ATCACCCATAAAGCATATTCATACCGCTTTCGTTATGCTAACTTCATGGG}$
15	276951	${\tt AGCATTTAAGTTCTATAATGCCTATGCTTTAAAGACATTTGATGGTAAGT}$
	277001	${\tt ACTACTTGGAAAACTATGAGGATAGGGTGGTGATGAATGTATTGATGTTA}$
	277051	${\tt GCTAATGGTAACTTCAATAAGGCATTAAAACTCTTAAAACAGATTATCCT}$
20	277101	${\tt TAACCGTTTTCAACCAGCAACCCCTACCTTTCTTAATGCTGGTAGAAAGA}$
20	277151	${\tt AACGTGGTGAATTTGTTTCATGTTACCTGTTAAGGATTGAAGATAACATG}$
	277201	${\tt GAATCAATAGGTAGAGCGATAACAACTACAACTATCAAAACGTGA}$
	277251	${\tt TGGGGGAGTAGCACTTTGCTTTCCAACTTACGTGAAGCGGGAGCGCCCA}$
25	277301	${\tt TCAAAAAGATAGAAAACCAATCATCAGGGATTATCCCAATTATGAAATTG}$
	277351	${\tt TTAGAGGACTCTTTTCCTATTCCAACCAACTTGGACAAGACAAGGAGC}$
	277401	${\tt GGGAGCGGTGTATCTCCATTGTCACCATCCTGATGTTATGCAGTTTTTAG}$
30	277451	${\tt ATACTAAAAGGGAAAATGCTGATGAGAAGATCAGAATTAAATCACTCTCC}$
30	277501	${\tt TTAGGACTTGTGATTCCAGATATCACCTTCCAATTAGCAAAAAAAA$
	277551	${\tt GATGATGGCACTTTCAGTCCATATGATATCTATCAGGAGTATGGTAAGG}$
	277601	${\tt CTTTATCTGATATCTCAGTAACTGAGATGTATTATGAATTGCTTGAAAAC}$
35	277651	${\tt CAACGCATTAAAAAGACCTTTATTAGTGCTAGAAAGTTCTTTCAAACAAT}$
	277701	${\tt TGCTGAACTCCACTTTGAAAGTGGTTATCCCTACATCTTGTTTGATGATA}$
	277751	${\tt CAGTTAACAGGAGAAATGCCCACAAAAACAGGATAGTAATGTCTAACCTT}$
40	277801	${\tt TGCAGTGAAATTGTCCAACCATCTTTACCTTCTGAATTCTATTCAGACCT}$
40	277851	${\tt TACTTTAAAAAGGTAGGTAGTGATATTAGCTGTAACTTGGGGAGTTTAA}$
	277901	${\tt ATATTGCTAGAGCAATGGAAAGTGGTAGTGAGTTAGCTGAATTGATTCAA}$
	277951	${\tt CTAGCAATTGAATCACTGGATTTAGTGTCAAGGATCAGTAGTTTAGAAAC}$
4 5	278001	$\tt CGCTCCTTCCATTAAAAAAGGTAATTCAGAAAACCATGCGTTGGGATTAG$
	278051	${\tt GAGCGATGAACTTACATGGATTTTTAGCAACAAATGCTATCTAT$
	278101	${\tt TCAAAGGAAGCGGTTGATTTTACTAACATCTTTTTTTATACAGTAGCATA}$
50	278151	${\tt CCATGCGTTTAGTGCTTCCAATAAATTAGCATTGGAACTAGGTAAATTTA}$
50	278201	${\tt AAGACTTTGAAAATACTAAATTTGCTGATGGTAGTTACTTTGATAAGTAC}$
	278251	${\tt ACTAAGGTAGCTAGTGACTTTTGAACATGTAAAACAGAAAAAGTTCAAGC}$

	278301	CCTTTTTGATAAATACCAAGTAAAAATTCCAACTCAGGAAAATTGGAAGC
	278351	AATTGGTAGCAAGTATCCAAAAAGATGGACTTGCAAACTCCCATTTAATG
	278401	GCTATTGCCCCAACTGGATCTATCTCATATCTCTCTTCATGTACCCCTTC
	278451	ACTTCAACCAGTAGTATCTCCTGTTGAAGTGAGAAAAGAAGGGAAGTTAG
	278501	GACGGATTTATGTCCCTGCTTATAAGCTTGATAATGATAACTATCAGTAC
0	278551	${\tt TTTAAAGATGGTGCTTATGAACTGGGCTTTGAACCTATTATTAACATAGT}$
0	278601	${\tt AGCAGCCCAACAACATGTTGATCAAGCAATCTCTTTAACCTTGTTTA}$
	278651	TGACTGATAAAGCTACCACCAGAGATCTCAATAAAGCTTATATTTATGCT
	278701	${\tt TTTAAAAAGGGTTGTAGTTCTATCTATTATGTCAGAGTAAGACAAGATGT}$
5	278751	TTTAAAAGATAGTGAAGATCACACTATTAAAATCAAGGATTGTGAGGTTT
	278801	$\tt GTTCTATCTAACTATTAAAGCAGTTAGAATTTGTTAGAATTACTTGTTTT$
	278851	AAAACTATCTTAATCCCTAATATATAAATTAGAAAGGCAACGGTTTTGAG
20	278901	AAGATGCATGCTATTGTGGTTTTGTGGTGCTAAGCAGTATTTAGTCCATGA
20	278951	AAACGAGTCTATTTTTGTTGAAAAATTAGCTGGTAAAGTTGGTCAGGAGA
	279001	TCCAACTTGATAAGGTATTGATGCTTGATGAAAAGATAGGCAAACCTTAC
	279051	CTTGAAAAAGCTAAGGTTGTTTGTGTGATTGAAAAACACGGTTTAAAATC
25	279101	GAAAATTAAACTAATTAAACACATCTCCCAAAAACACCACC
	279151	ATGGCCACCGTCAACCCTACACCAAACTAAAAGTGGTACGCTTTATCCAT
		GATTAAGATTAATATCTCCCAAAACTTTCTAGTTGCAAAAGGTCATGCTT
30		TGTTTGCTGAGAAGGGTAAGGACATAGTTTGTGCTGCAATTAGTGGAATT
30		ATCTTTGGGGGGGTGGCTTGGTTTGAACCTGATAAGATTGAATTTACTGA
		AAATAAATTAGTACCTAGTATAGCACTGAAACTCATTGACCCAACCCCTA
		ATGTAGCAGTTGCTTTTAGTGTTATTACAGTACAATTAAAAGCAATAGCC
35		AATTCCTATCCTAATCACATAGTTATCAATGAAGAGAGTTATGAGTAAAA
		ACAGTTACTGCTACCAAATTAACTTACAGTTTTTCGCTTCCAAAAAAGGG
		GTTGGTTCCACTAAGAATGGACGTGATTCACATTCTAAGCGCTTGGGCGC
40		TAAGAAGGCAGATGGTCAGATGATTAGAGTTGGTCAGATTATCTATAGAC
40		L AAAGGGGAACTAAGATCTTTGCAGGACAAAATGTTGCAATGGGTAGTGAT
		L AACACCCTCTTTGCTTTGAGCGATGGCATTGTCCGCTTTCAAAAGTTTGG
		1 TAGTAAACAAAGCAAAACCCGGGTTAACATCATCAAACACCAACTAAATG
45		1 CCTAAGCTACTGGGTAGCTTTATTAGCTTTAAAGCCCCCAATTACTTTGT
		1 TCAAAGTGCTCAGGATGCAATTGCTATTGATGCAACTGCTCTAATGGTAT
		1 TTTTAGGTCCACCCCATTCTGCTTACCGTGTTCCTTTTAACAAGATGCAG
50		1 TTTAGTTTGGGCTATGAGTTGTTAAAAACAAAGAATATTAATAGTAATGC
		1 TTTGGTTGTTCATGCTCCATATATCATTAACTGTGCATCAAAAGACCCAC
	28005	1 TAAAACAGCAGAATGCTATCAGTGTTTTAACCAATGAGATTCAGCTTTGT

	280101	${\tt AACTTGGCTGGTGCTCACTATTTAGTTTTGCATCCAGGTTCTGCAGTAGC}$
	280151	${\tt CCAAACAACCAACGAAGCATTAGATAACCTGGTTAAAGTACTCAATCAA$
5	280201	${\tt TTATCAATAAAACCAAAACAACAGTTATTTGCCTTGAAACAATGGCTGGT}$
	280251	${\tt AAGGGTAATGAGATAGGCAGAGACTTAACTGAGTTGAAATATGTTATTGA}$
	280301	${\tt CAGGATCGTTGATAAAGATAGGATCGGGGTTTGTCTTGATACCTGTCACT}$
10	280351	${\tt TCCATGATAGTGGGATTGACTTTAGTGATCTAACTGGTGTTTTTAACACCC}$
	280401	${\tt ATTACAACTAAACTTGGTTTTGAGTTTCTCAAAGTAATCCATTTAAATGA}$
	280451	${\tt ATCTAAAAATAATTGTGGTTCTAAAAAAGATAGGCATGCTAATATCAATG}$
	280501	$\tt CTGGGATGATTGGTTTTGAGAACTTAATGAAGTTCATTAGTCACCCCCAA$
15	280551	${\tt ATTAAGGATTTACCTATTATCTTAGAAACCCCTTCAACTAGTTTAAACTA}$
	280601	$\tt CCCAACTATTTACCGTGAAGAGATTAGTCAAATCCGCAGCTGATTTAAAA$
	280651	$\tt CTTACCAACCAGATGCTAACTAGTTATGTGAAGGTATTAGAACAAAACAA$
20	280701	${\tt TCTGCGCTTAACAAAACCGCGGATTGCTTTATTAAAGTGTTTAATTGAAC}$
	280751	${\tt ACCAAGATTGGCATAATCTCTCCCAAATTAAAACCCACCTTGATTTAGCC}$
	280801	${\tt AATCAACCCTCAACACTCGCTTCTATCTACAACAACTTAAGAATCCTAGC}$
	280851	${\tt TAAACTTAAACTGATTAACATCTTTGTAGATCCAGAGCGGTTTGAAACTT}$
25	280901	${\tt ACTATTGCCTGCGCCATGCAGAGCATAACCATATCTATCT$
	280951	${\tt GTTAAACAGCAGTTTTTTACCTTACCTTTAACAGATGGCCAAATTAAAAC}$
	281001	${\tt ATTGCTTGAAACCCAAAACCATACCAGTAAGGTAAAGCTTAATGATTTTT}$
30	281051	${\tt ATATTGTTGCTAGGGGTGAGATAAACAATGATTAACAAACCAAACCAATT}$
30	281101	${\tt TTTAAACCACCTTGATGGCTTAAAGCAACATTTTTCTGATTATGATTCAC}$
	281151	TACAAAAATCCTTTAAGAAATATCTATCAGAAAATCAAACTGAACTTAAC
	281201	${\tt AATTTCTTTTTAACCAGTTTGAAAAGATCATTGTTCTGGTCAAAAAAAA$
35	281251	$\tt GGAGTTTAAAACTGCTCAAGAGAGGGTGTGAAGAGGAGTTAGCTACCCCTT$
	281301	ATTTTCAAAGCCATTGGTTGGTTTTTCCAATCACTATTACAACTAATT
	281351	AACCATGATCTCATCGAACAGaAAAACCAACAGTTAGCTAACATGAGTTG
4 0	281401	TGAAAAATTGTGGAGATGGTGTTAAGTGATTACCCCCAATAAACTTAACT
40	281451	TAATCCACTATTTGTTAGCAAAAGAAGCGAGTTTTGTAAACCCTAACCTT
	281501	${\tt TTACAGCGGATGACTTTTGTGTTAACTGATCTTGAACTGTTAGAGTTAAA}$
	281551	GCGTTTCTCTTTTTTAAAGCCCCTTAACCAGATACCTGCTTTTAAAAACC
4 5	281601	ACAAAGTAACATACTTTAACAGCAAACTCAAACAGAAGTTTGTAATAACA
	281651	TTAGGTGAATTTGCTTTCCCCCAAACTGATAAAACCAAACAGTTTTTCCA
50	281701	ACAACTAATTAAAAAGTAAGTCAACTGTTTTTAAAAGAACCTGTTAGTT
	281751	GTGAATTTGCTTATGAAATTATTGATGCATTACTCGTCAGTTTTTTTCCA
	281801	CTCCATCCTAATTTAGAAGTAAACCACTTAGCTAAAAAGATCCACCAGTA
	281851	TGTTAGTAAGATTGTCATTAATGAAGTTGTTGATCTGAAAGATCCAACCA

	281901	CTAAACTAATTGTTGATACACTTTATGAACAGTTAGATAGA
	281951	GAGGAAAATTAAAATTAAGTTAGCACTAGTAGATACAAAAGATGAAGTTA
5	282001	TACAAAGTTCTTAACAGTAAAACAACTGATAAAAGTCTTTGTTTG
	282051	TGAGATTGAŁCCAAATTACTGACAAGCTACCCAAAAAAAACTAGTAGGTG
	282101	AAATGGCTAAATCGATAAAAATTAAGGGTTTTCGTCCCGGTAAAATCCCC
10	282151	CCTAATTTAGCCAGTCAGTCGATTAATAAAGCTGAATTAATGCAAAAAAG
	282201	TGCCCAAAACGTCATGAACAGTATTTATGAATCAGTTCAACAAGAAGAGA
	282251	TCGTTGCTAGTAATGATAATGTCATTGATGATTATCCTACCATTGATTTC
	282301	AAAACGATCACTGAACAAAACTGTGTACTTTTGTTTTACTTTGATCTGAT
15	282351	CCCTAACTTTCAACTCCCTGATTACAAAAAGATAAAAGATTTAACACCAC
	282401	TTACCAAGTTAACTGAAGCTGAATTTAACAACGAAATTGAAAAGCTGGCA
	282451	AAAACTAAAAGCACAATGGTAGATGTTAGTGATAAAAAACTAGCTAATGG
20	282501	TGATATTGCTATCATTGATTTCACTGGGATAGTTGATAACAAAAAACTAG
20	282551	CATCAGCTTCAGCACAAAACTATGAATTGACAATTGGTTCAAATAGCTTT
	282601	ATTAAGGGTTTTGAAACCGGGTTAATAGCAATGAAAGTTAACCAGAAAAA
	282651	${\tt AACTTTAGCACTAACTTTTCCTAGTGATTATCATGTTAAGGAGTTGCAAT}$
25	282701	CAAAACCAGTTACATTTGAAGTAGTTTTAAAAGCAATTAAAAAACTGGAA
	282751	${\tt TTCACCCCAATGGATGAAACTAATTTCAAATCCTTTCTCCCTGAACAATT}$
	282801	CCAAAGCTTTACTTCTCTAAAGGCATTTAAGAGTTATTTTCATAAGCTAA
30	282851	TGGAAAACAAAAACAAGAGACAATTCTCCAGGAGAATAACCAAAAAATT
30	282901	CGTCAGTTCTTACTACTAATACCAAACTTCCTTTTCTTCCAGAAGCGTT
	282951	AATTAAACTAGAAGCTAACCGCTTGTTAAAGCTCCAGCAAAGCCAAGCTG
	283001	AACAATATAAAATCCCCTTTGAAAAACTCTTAAGTGCTTCTAATATCACC
35		CTAACAGAGTTACAAGATCGCAACATAAAAGAAGCTAAGGAAAATGTTAC
		CTTTGCTTTGGTAATGAAAAAGATAGCTGACATTGAAAAGATTAAGGTTG
		ATAATAACAAGATTAAAGCTGAAATTGAAAATGTTATTGCTGTTGAATAT
4 0	283201	CCCTTTGCTAGTGAAATGAAAAAAAACAACTCTTTTTTAATATGGAACA
40		ACAAAAGGAGTTTGTGGAATCAATTATCATCAACAGATTAACAACAACTA
		AAATCGTTAGCTATTCAACTCATTAGCACTCAAAGCTTGTGAGTGCTAAG
	283351	AAATGTGTTAAAATTTATTGAAATTCCCTAATTAACTTTTAAATATGCCC
45		GTTACGAAGAAAGTCAGATCTTAGTAGTTAGAGGTCAAGTCATTTTTCC
		TTTTGTTCCCTTTAGTTTGGATGTTGGCAGGCCCCGTTCGCGTAAGATCA
		TCAAAGCGCTTAAAACTCTGAAAACCAAACGTTTGGTTTTAGTAACCCAA
50		AAGTTTACTGGTGAACAAAACCCTGAGTTTAATGACATCTATCATGTCGG
50		TACACTCTGTGAGATTGATGAGATAGTTGATGTTCCAGGGGTTGATAGTA
	283651	AAACAGTAGACTACCGTATTAAAGGCAGAGGTTTACAACGGGTTTTAATT

	283701	${\tt GAAAAATTCTCAGATGCAGATATTAATGAAGTTAGTTACCAATTACTTAA}$
	283751	${\tt CTCCACAGTTAAAGATGAAGCTAATGTTGACAGGTTCTTACAGCGAATCT}$
5	283801	${\tt TTCCTGAAAAAGAAGAAATTGAACAGTTAATGGAAGGAGCTGAGAAGTTT}$
	283851	${\tt TTAGAACTTGAAAACATCAGCAAAACAGTTAATGTTCCTAAGGGTTTAAA}$
	283901	${\tt GCAACTTGATATTATCACCTTTAAACTGGCTAATCTTGTCCCTAACACTG}$
10	283951	${\tt AAAGTATTAAACAAGCTATCTTAGAGGAAAATGAGATAGCAAACCGATTG}$
	284001	${\tt GAAAAGATTATCCAAGCAGGGATTGAAGATTTACAGAAGATCCAAGATTA}$
	284051	${\tt TGGTAGATCTAAAAACAAGGAAACTGAGTTTGATAAACTTGACAGTAAAA}$
	284101	${\tt TTACCCGCAAAATTAACGAACAACTCTCAAGACAACAACGTGATTTCTAT}$
15	284151	$\tt CTTCGTGAAAAGCTAAGAATTATCCGTGAAGAGATAGGGATTAGTTCCAA$
	284201	${\tt AAAAGAGGATGAAGTTGCTAGTATTAGAAAGAAACTGGATGAAAACCCTT}$
	284251	${\tt ACCCTGAAGCCATTAAAAAACGGATTTTAAGTGAACTTGAACACTATGAA}$
20	284301	${\tt AACTCTTCCTCCTCTTCCCAAGAATCAACCTTAACCAAAACTTACATTGA}$
	284351	${\tt TACGCTTTTAAACCTGCCTTGATGACAAAAGAGCAAAGATAACAGTGATG}$
	284401	${\tt TTAAAAACTTAATTAAGACGTTAGATAAAAACCACACTGGTTTAGATAAG}$
	284451	${\tt GTTAAAGAAAGGATTGTTGAGTATTTAGCAGTACAACTAAGAACCCAAAA}$
25	284501	${\tt AAACAAAGGTCCTATTATGTGTTTAGTAGGTCCTCCTGGGGTTGGTAAAT}$
	284551	${\tt CAAGTCTAGCTAAGTCTATTGCAGAAGCATTAGATAAGAAGTTTGTCAAG}$
	284601	${\tt ATCTCATTAGGGGGAGTACATGATGAATCGGAAATCAGAGGTCACCGTAA}$
30	284651	${\tt AACTTACTTAGGTTCTATGCCAGGAAGGATTTTGAAAGGGATGACCCGTG}$
	284701	${\tt CTAAGGTAATTAATCCCCTCTTTTTACTTGATGAAATTGATAAGATGACC}$
	284751	${\tt TCCTCCAACCAAGGTTATCCTTCAGGTGCTTTACTTGAAGTATTAGATCC}$
	284801	${\tt AGAGTTAAATAAGTTTAGTGATAACTATGTTGAAGAAGATTATGATC}$
35	284851	${\tt TTTCTAAAGTAATGTTTATCGCTACTGCAAACTACATAGAAGATATCCCT}$
	284901	${\tt GAAGCTTTACTTGATAGGATGGAGATAATTGAACTCACTTCCTATACAGA}$
	284951	${\tt ACAAGAGAAGATTGAGATAGCAAAAAACCACTTAATTAAGCGTTGCCTTG}$
40	285001	${\tt AGGATGCTGATCTTAACAGTGAAGAATTGAAGTTCACTGATGAAGCAATC}$
	285051	${\tt AGCTACATCATTAAGTTTTACACAAGAGAAGCGGGGGTTAGACAATTAGA}$
	285101	${\tt ACGATTAATCCAACAAGTTGTAAGAAAGTACATAGTAGCAATGCAAAAAG}$
	285151	${\tt ATGGCATCAAACAAGAAACGATTGATGTAAACGCTGTTAAAAAAATACCTT}$
4 5	285201	${\tt AAGAAGGAGATCTTTGATCACACTATGCGTGATGAAGTGTCTCTACCTGG}$
	285251	${\tt AATTGTCAACGGGATGGCATACACCCCCAACTGGAGGGGACTTACTT$
	285301	${\tt TAGAAGTTACCCATGTTGCTGGTAAAGGAGAGTTGATCTTAACTGGTAAT}$
50	285351	${\tt TTAAAGCAAACAATGCGAGAAAGCGCTAATGTTGCTTTAGGCTATGTAAA}$
	285401	${\tt AGCTAATGCAGAGCGTTTTAACATTAATCCTAGTTTGTTT$
	285451	${\tt ATATTAACATCCATGTTCCAGGTGGGGGAATTCCTAAGGATGGACCTAGT}$

	285501	GCTGGTGCTGCTTTGGTAACTGCAATCATCATCATCATTAACTGGTAAGAA
		AGTAGATCCTACAGTGGCTATGACAGGAGAGATCACTTTAAGAGGCAAAG
ī	285601	TGTTGGTTATTGGTGGGGTGAAAGAAAAACTATCTCAGCTTACCGCGGT
	285651	GGGGTTACAACTATCTTTATGCCTGAGAAAAACGAGCGCTATTTAGATGA
	285701	AGTACCCAAAGAGATAGTAGATAAACTTAACATTATCTTTGTTAAGGAAT
	285751	ACAGTGATATCTACAACAAGCTTTTCAGTTAGTCTTTAACTAGGTTTTGG
10	285801	ACATATTTTAAGGTAATTAAATAGGCCTGTTTTAAGTTGCTTTTAGCTAG
	285851	${\tt TTTTACTAGTTGATCAATCTCAATTCCCCCACTCCACTGTTCCTGTTTAC}$
	285901	${\tt GGTTAGGTTCTAGTTTATCTGCTAAATAAACAATCATATCTAGCTTGCTA}$
15	285951	${\tt ACTTGTTTTGGTGGGATGGTGTGGTTTTTGATGGCATTAATAATCATTTT}$
	286001	${\tt ATCTTTAACACCAAATCAGTTTTTTAAGATATAAGCCCCCACATAGCTAT}$
	286051	${\tt GTAATACTTTCAACTTGGGTAGTTAGTTATCTTCAGTTCACTAGTTGCA}$
	286101	${\tt ATGTTAACTAACTGATCAACTGGTAGTTGTTTGGCCAAGTCATGATAAGC}$
20	286151	CCCAGCAACAAATGCTCTTTTAGCATCTAGTTTGTTTGCAATTGCTAGTT
	286201	GTTTTGCTAGTTTACCAACCCTTAAACAGTGTTGAAACCTCTTATCATCA
	286251	ACCATTGCTTTTAAAGTGGGAATTAGATAGAGGTGATTGGTATTGATGTA
25	286301	ATTTAAAACTGCCAGTGGTATCAGTTTTTTTCTAGGTTGATTTAAAAGTT
	286351	TACTTGAAGCGATTTCAAGTGGGCATTTAGCCAAGTATTTAACATTAAAT
	286401	TGGTTTGCTATTTTTTTTATTAAAAGGATAAGGTTTTCGTTCATAACAAAC
	286451	AAACGTGCACAAATCTTTTAACTGTTGGATGTGATCTCACTTCTCAAGTT
30	286501	CATTTAATTTATCACTCCCTATTAAAAAATAGATTTCACTAGTTGGATAA
		CAACTTTTAAAGTGGTTAACAGTATTAATTGAAAAAGCGTTTTTAGTTTT
		AATATCAAAATTGGAAACTAAAGCATTGTTGACTGATTTAATTGCTAGCT
35		TTAACATAGCAATCCTATCCTTATTACTAGCATGAAAATTATTTTAAAA
		ATACCATTGTAAGTTGGTACAAAAAAAGCTTTTGCGCTTTTATTTTTTT
		AATTGCATGTTTAGCAATGTAGAGATGGGCATTGTGAATAGGGTCAAAAG
		AACCACCAAAGATAATTTTTTTGCTTCAAAAAAGATCTTAAAAACATTT
40		AATTCTAACTAAAATAATTGTGACACAAGAGCAATGATCCAAAAGGAGAT
		GGAGATCTATAACCTCTTTACTTTTCAAATTGATCTTGATAAAAAACTGT
		TGTTTGAAAAATCAAATGATCAGAAGAATTATTCCAAGATTAGAACCCAT
4 5		TATTTCAAGCATAAATTCAAAAATAAAAGTGCTGTTTTTCTCAATAAAAA
		CCTGATTAAAAATAGCTTAAATAAGGTTCTTTTAAACTTTTCTGATTTTG
		TTAGTGGTGCTGGAATTGATACAGTTTTTAACCAAATCATTGATGAAGAT
		CCTGAGGTTTTAAACTATTTAAAGCAAGTTAAAAAAGATCTTTCCAAAGA
50		AAACAACGCTACATCCCAACTAACCTTTAATGTAACTATTAACCCTAAAA
	287251	ACACCCTCGCCAATTTTTTTGAAGGATTTAATATTTATCTCCATTTTAAT

5	287301	${\tt GAAGAAACAATACAGTGATAGGTAGTTTCTCACTACAATGACACATCAA}$
	287351	${\tt AAAAACTGATCTGTTTTCTGAAACAAAAAACATTGCCATTAACAATTTAA}$
	287401	${\tt TTCACACTTTTTGTAAGAACAACATGCATGAAATTAGTTTTATGCAGATC}$
	287451	${\tt ATTAATTGTTTTCCAAAACAAAAATTAATAAACATGGTGAAATTGTTTT}$
	287501	${\tt AAAAAGTTGTGCTTTTAAACAAAAATGACAAAATGTTGTTGCTGAAAAAT}$
10	287551	${\tt ACCCATTCTCAACTGCATCTAAAGATTTGGAGAAAATTAATGATTTTTT}$
	287601	${\tt GATGCTCTTTTTGTAATGCTATTATTGGTATGTCACCTCAATAAAAACCT}$
	287651	${\tt GTTATGATTATGTGAAAAAACTGATTTTTTTGAATGAAAACCAAGTCAGA}$
	287701	${\tt AAACTGCACTTTTTAAAGCTAATGATAGTGGAGCATACTTAGCTAGAATG}$
15	287751	${\tt CTGCTCTTTTTAAACGATTGGTACAACGAAAATCAAGCAATAACAACTGC}$
	287801	${\tt TGACATTGAAAATGTTAATGAGGTTGAAGACATAGGAAAATTAGTTGAAA}$
	287851	${\tt AATACAGCACTAATCAACCCCAAAAGTTATCGTTAAATTCAACAGTTTAT}$
20	287901	$\tt GTATTACAAACAAAACAAAAACAGTTTTTTTAAAAAAATGATTTCTTTTT$
	287951	${\tt TAATAATAACGAAGCAAAGCTGTTTTTCTAATAACTATGAAGCCCAATG}$
	288001	${\tt TTTTTGGTCTTGATGATACAGCAATAGCAAATAACTTAAACCTTAAAAAA}$
	288051	${\tt ATTAGTGATTTTTTTAAAGAGATTGATTTTAATGATGAGGATATTCTAAA}$
25	288101	${\tt TGACTTTAAACAAGAACAGGAAAAGTTATTGGTTAGAAGAACATTTAACC}$
	288151	${\tt AACTGTTATTTATGAACAAAAATACTGAAATTCTCAGTGTTGTCAATGAC}$
	288201	${\tt AAGCAAAAGTCAGTAATCCATAACATTGTTTGAACCATTACTTATAGTAA}$
30	288251	${\tt AGCGATCATGTTAAAAGCCTTTGATTATTCCAAAGCCTTTGAAAAAAACCC}$
	288301	${\tt GAACGAGTGATCCTTATTGCGATCTAATTTAACTGTTATCAACCGC}$
	288351	${\tt TTAAGATACCTCAGTGAATACTTTCAAAATGCCTCACTTAAGTATGATCT}$
	288401	${\tt ACTCTACACTAAGGCCAAACAATATATGCAAATTGATAAATTTATCAACG}$
35	288451	${\tt ACATGATTCGCAAGGTAAACCATGAGGATGAAATCTTTGGCAAATTTAAA}$
	288501	${\tt GAAAGAATTTATTTAAGTTTGGGAATTATTAGTGCGGTAGTGTTTGGCAT}$
	288551	${\tt AGTTGAATTTTTAACTGTGTATGGACTATCTTAACTGTTAGTCAAGAAG}$
4 0	288601	TGGTTGATAAAAGTGTTTTGGATCCAAGGAATATTATCTTTATTAGTATA
	288651	${\tt GGTACTATTTGGTTTATTTCTTTTGGTTACTATCTTGGTTTTTATGAC}$
	288701	${\tt AAGAAGACTTTATCTGTTTGAAATTAATAAAAAGCATAAAAATTAGGAAT}$
	288751	CATGAAATTCAATAAGTTAAACCTAAGTCATTGTATCTCTTTTTACATCT
4 5	288801	CAGAAGTTTCAGAAGTTTTCTTTGAAAGTATCAACCAACACCCTAGTCGT
	288851	GATTTTGTTAATAACATTCTTCAAAAGATTAAAACTACTTTAAGTGAAGA
50	288901	AGAGCTTGAAAAGTTAAACAGTATTGAAGAAGTTACTAAGGATGAGAAGA
	288951	${\tt TTGTGATCATGCTCAACCATGTTTTGAAAAGATTGTTTCTAAAACTGGT}$
	289001	${\tt AGTTCTAAGTGTGACTTATTTAATGTAATCAAACAAGATAGGTTTAATTC}$
	289051	TCCAGTGTATATCCAAAGTATTAATGCTTTTGAAAACAACCTTATTAACA

	289101	ATGAATTTGCTGAAAGAAGGTATGACTATTTGATTGAAGTTAATAAAAAt
	289151	TCATACCTTAAAAATTTGTCAATTCGATCAGAATTTCCTTCTTCTTAGA
5	289201	TTTAAGAGCACAAATTTTGTCAGGTTCATTTACCCTTAATTTAGTTAATA
	289251	AGTCAATTGAAAAACAAAAAAAAGACAGAAATTTTTAAAGATATTTTTGTT
	289301	AATGCCTTAGTTAAGCATTTTATCTGTAATCAACTTTATCCTATCTCTTT
10	289351	AAATTCCTTTATTTTTGACAGTGAAAATCCTAGCAATAAACTCGCTCTAA
,,,	289401	AAGAACGGATTAAGCTTTTAAAAACAAACTGAAATTCCCTCTTTTTTGAT
	289451	AAGTTTTACAACTGTTTAAACAATAAAAATAAGCAGCAACTTCAAGAAAC
	289501	TAGTGATGAGATGTTTTATGCAGTGATTAACACTTATTTAATCATGTTAA
15	289551	TCTCTGTTGAAGAGTTAAGGGTTTACTTTACAAGTAAAGAACCAGCACTG
	289601	ATTTTAAAGGTATTAGATAAAAAAAACACACTAAGAGAAGATCCTGATCA
	289651	AAACCCTGAAACTGATTTGTATGAACTAATACAGTTTATAGAACAAAACT
20	289701	ACTTAAAAAAAGATAAAAAAACCAGCTGAAATAAAAAAAGGTACAGGAT
20	289751	CTTGAACAGTTACTTGAAGAGATTAACAAGATTAATTTAGAAACAAAAAA
	289801	TGAATCTTTAGCTTACCCTGATGAGATAACAGAATTGGAAATTGATAATG
	289851	ATAATTTTGTCTCTACAAAACAAGTATTTAGAAACCAATTAGAATTACAA
25	289901	$\tt CTTTTGCATGGGATTGTAATTAATCCTGAGAAGTATGGAATTGGCATGTG$
	289951	AAGTAGTTATTTTGCTGATTGAAGTGAGTACAAAAATTTAATAGAACAGA
		TGCTCAATCCCAAAAGTGGTAATGATTTTTATCAGTTTGAAAAGGACATA
30		GATGAAAGCATATGTCAAATTAACAAAAAATATCTAACTTTTATTAGCAG
50	290101	TGATAGTAATACCTTTTTAATAGTTAAAAATGATGATGATATATTT
		CTAACTATGTATGAGCACAACTTTTCTTTGAAACAAGAAGGTGAATTATC
		AATGACATTGAATTTGACTTGTATGAAAAAGGATTTGATAAAAGCCACTT
35		TTCACGTAACATTGCTTTACTTGAAAGTCTCAGTTTTAGTTGATTAGATC
		CTTTTTATGGTTTGACATCAATTAAAGAGATCATGCAGAAAATAGATAG
	290351	AAAAGTAATCTTAAAACCTCGATTGAAGAGATGGTAAATAGGTTTAAACA
40		TGAGCAGCGAATTAATAAAAAGGACAATGAAAGGGTGTTGATGATTTTTTG
40	290451	CTTATATTGCTGCTTTTGTAGTAGGATTTATCAATTTTTTCTCAATGGTC
		TTTACTATTCTCACTGTAAGTGATCTAAATGCTGGGCTTACTGTACCTAA
		CATCATTGTAATCAGTATCGCTAGTGTTTTAGCTTTTATTTTGATTGTGA
45		TTGCTGTTTTATTTCGTTTTAAATGAAAACACATTAAGCACTAATAATGC
		AAATTAAAGTTATTAATGAAACAAATAAAACTGTTCAAATTTTTCAATGT
		GCTAAAGTAAAACATAGGGCATTAGCTTGATTGTGCGATGTATTTTTATT
50	1	AGCTATTGTACTTGTGGTTATCTTTTTAATTACTCAAGCCTTTAGTGATA
	290801	ACCGTTTTCTTTTATTTTTAGTTTTAAGTTGTTCACAAACAA
	290851	ACGGTTTATTTCATTTTTTTACCATTTTTTTGGGATGGTAAAACTTTGTT

5	290901	${\tt TCGCAACCTTTTGAAGATTAAGCTATTTGCTTTTGACAAAAGGTTTTTGA}$
	290951	${\tt GAATAATGATCCATGAGTTGTTTTATGGATTTGCTTTCAGTTTTGTTTT}$
	291001	${\tt TAGTGATTGCTAGTTATTTTTTTTTTATTAACCAAAATAGCAGCGAAGCGCTT}$
	291051	${\tt AATTTTTCACTAATTTAGATAAGCCTAATGCAATAGCGATAACAATTAG}$
	291101	${\tt AACCATAACAATTTTGATTAGTTTTTTACAACTGATTTTTATTGGTTATT}$
10	291151	${\tt TTTGTTTTAGTTCTGAAAAACAAGCTTTACAAGAGATACTGTCAAACACCC}$
	291201	${\tt TTTATGGTTCAAGAAAACACACTTTAAAATCAAAACCAACTAGCTTAAA}$
	291251	${\tt AACCAACAATCAACCTGATCCAGCTAATTTACCAGGCGTAATAGCTCTTG}$
	291301	${\tt ATGAAGTGGAAAAACTCATTAATTAATAACAATGAATGAA$
15	291351	${\tt AAGCAATTAGTTGTGGAAAAGGGGTTAATGTTGTTTATTCTGGAGCAGGT}$
	291401	${\tt ACTGGTAAAACAACAATTATTACTAATCGCTTTGCATACTTGGTTAATAA}$
	291451	${\tt AGAAAAGTTGATCCTAGCAGAATTTTAGCAATCACCTTTACTAAGAAAG}$
20	291501	$\tt CTGCTAAGGAGATGCAGTTTAGAATCTTGAAACTAATAGATAG$
	291551	${\tt GCTGAGAAAACAAATATCTATACATTTCACAGCTTTTGCAATAAGTTTTT}$
	291601	${\tt AATTCAAACATTAAAAAAGCGCTTTATCATCGATGATGATATTAGCTATT}$
	291651	${\tt TCCTAAAGGAATTTTTAGCTGATTCAAAACTCGATATCAACCTAGCGAAA}$
25	291701	${\tt CAAATTATTGATAACTTTAAAAATACTTTTGCTGATTTTGAAATAAAT$
	291751	${\tt GTTGGATCAAGATGAAAGGTTAATTAGTTTATGTGAGCATTCACTTCTAA}$
	291801	${\tt ATAAAGATGAAGAATATTCCACTTTAAAAACCCCAACTGATTAATGCATTC}$
3 <i>0</i>	291851	${\tt ATTAGCTATGAAAAGAATAAAGATAAACATTAAACTTGATTTTCATGA}$
	291901	${\tt TCTTTTAATTAAAACTTGTAATTTATTGAGTAATGATAATGATTTACTTA}$
	291951	${\tt ATCAGTGGAGTGAACAGTTTCAGCATATTTTAGTTGATGAATTTCAAGAT}$
	292001	ACCAACCAAATCCAATATGAACTGATCAAGATGTTAGTAACTAAAAATAA
35	292051	${\tt AAACTTGTTTTTGGTAGGTGATAATAACCAGATGATTTACCGCTGAAGAG}$
	292101	${\tt GGGCGGTAAACGGGATCATAACTGCTTTAAAGCATGACTTTAATGTTCCG}$
	292151	AAAAGCAATGAATTCTTTATTAATCAAAATTACCGTTGCGATCAGAATAT
4 0	292201	TTTAGCAGTTGCTAACCAAATTCTTTTAAAAATTATGGCCTATGAAAAAC
	292251	AAGTTAAAACTGAAAAAAATCTCTTGTTTTCAACTTTAAATTCTGATAAA
	292301	AAACCTGTTTATTTTCAAGCTGAATCAGTTGAAAATCAAGCCAATTGGAT
	292351	CTTCAATAAAATCAAAGCACTAAACCAAACAGAAAAGATTAATTTTAAGG
4 5	292401	ATATGGCCATCTTGTTTAGAAAGAACAGAGATATTACTACTATGGTTGAA
	292451	TTGATTGAAGCGGATGGAACAATTCCCTTACCTAAACAAAAGAGTTATTT
	292501	TAACCAACTAGTAAAACTCCAGCGGGTTTTAATTGCGATTTCAACCAGAA
50	292551	CAAATCTTGATATTAAAAGAGCTTTGCAAGCCCTAAAAATTTGATCAAAT
50	292601	${\tt GATTTAAAGGAATTGTGAAAACAGAGTGATAAAACAAACCTATTTGATTt}$
	292651	${\tt TCTTAAATGATCAGAATTAAATCAAAAAAACCATAGTTCAAAACTTAAAG}$

	292701 CTACTGGTTATTTTAATCTGCTGATTAAGTTAGCAGAGGATCAGCAAATT
	292751 AACCTTTTGTTTACTGAACTGTTTAAAAAACTCAAAGTGGATCAAACTAT
	292801 TGAAAATCTGCTTTGAAAAAACTAACTGAATTTCAAAAAGATAAAACTG
	292851 AATTTAGCTTATCAGAGTTTATTACTAGCTTAGCATTGGAATTTGACTCA
	292901 ATTATTGAAAACAGCAGTGATACAATCAATTTGCTAACCGTTCATGCAGC
0	292951 AAAAGGACTTGAGTTTGAAGCTGTATTTATTTATGGCATGAATCAAGGGG
0	293001 ATTTTCCCTTATTTTTAAGTCAAAATCAAAATGACGAACAACATTTAATT
	293051 GATGAATTAAAACTGTTTTATGTTGCTATCACAAGAGCAAAACGTTTTTT
	293101 GTTTATCACTGCGGTTTTACAAATAAATAACAATTCTATAAAACCATCTA
5	293151 GTTTTTTAAATTACATCAATAAAAGTGAGTATTTAGACATTGCTACTATT
	293201 AACTATGTATTAGAGCAGGATGATGATTTTTTTGATTCAACTAAAAAAAC
	293251 AGACTATACAAAGAAACTAAGAAAAGAAAGTTTAGACATTATAGTGGGTG
20	293301 ATTTAGTTACTAGTAGATACTTTGGAAAAGGAGTTGTAGTTGAAGTGAGA
20	293351 GACAAAGAGGTTTTAGTAGCTTTTAAAGACACACGCTATGGGATGAAATG
	293401 GATCTTAAAAAACCATAAATCACTAACAAAAGCTTTATATTAACAATGGT
	293451 TGATAAAAACAGTTTAAGAAAATTAATGCTTCTAAAAAGAGCAGAACTAA
25	293501 ATGATCTTGAAAAATCGCATTTAGATCAAAAAGATTAACCAAAAATTAATG
	293551 GCTTTTTTAATAACAAGACCAACAATTAAAAATTTAGCACTTTACATTCC
	293601 CATTAAAAACGAAGTGGCTTTTTTAGATAACTTTCTAGATTTTCTTAAGT
00	293651 TAAATAAAATTACAAGCTGTTTTCCTAGTATTGTTGATCAATTTAACATG
30	293701 AAGTTTATTGATCAAAATAATAATGAAATTAACCCTAATGATATTGATTG
	293751 TTTTTTTATCCCTTTATTAGCTTTTAATAAGGCAAACCACAGGATTGGTT
	293801 TTGGTAAGGGTTATTATGACCGTTATTTATCATTAACTAGCAAAAAACAA
35	293851 CTAAAAATAGGGATAGCATATGACTTTCAATATGCAGAATTCACTAATGA
	293901 TCCTTGGGATTATCAATTAGATTTAATTATTTGCAATGGATAACATAAAG
	293951 GTTCTTTTTTAGGTGATGTTTATGGCAAAGCTGGTAGAAAGATTATTAG
40	294001 TGATCATCTTCCCATAATTAAAAAAAAGTATCAGTTAAATCTAATTATTG
40	294051 CAAATGCTGAAAACACTACTAATGGTAAGGGTTTAAGTTGAAACCACTAC
	294101 CAAATACTAAAACAAGCAGGAATTGATTACATCACTATGGGTAACCATAC
	294151 CTGGTTTCAAAAGCAAGATTTAGAACTTGTTTTAAACCAAGTTGATGTTA
45	294201 TTCGCCCACTTAACTTAATGCAAGATTTTAACTATTTTCAGCTTGGCAAA
	294251 GGGAGTTATTTATTTAGCTTAAATGGTTTGAAAATAAGGATTACTAACTT
	294301 GTTAGGAACAAGTATTAACTTACCATTTGCAATAACAAACCCATTTGTGG
50	294351 AATTAAAAAAGTTAGTTTTAACTAAAGATTGTGATCTTCATATCGTTGAT
50	294401 TTTCATGCTGAAACAACTAGCGAAAAAAATGCTTTTTGCATGGTTTTTGA
	294451 TGGTTATGTTACTGCTATCTTAGGAACCCACACCCATGTTCCTAGTAATG

5	294501	${\tt ATTTAAGAATCACTCCTAAAGGAAGTGTTTACATTACTGATGTAGGGATG}$
	294551	${\tt TGTGGTCCTGGATTTGGTAGTGTTATTGGTGCTAATCCCAAGCAATCAAT$
	294601	${\tt TAAGTTATTTGTACAGGTGAAAGACAGTTTTTTGAGGTTTCTAATTGTG}$
	294651	${\tt GTGCACAACTCAATGGCGTCTTCTTTGAAGTTTGTTCAAAAACCAATCAA}$
	294701	${\tt GTTGTGAAAATAGAACAGATTAGAATAGTTTTAGATGATGAAAAGTATTT}$
10	294751	${\tt AGCTAATGACTACTTTAATTTAGTTGAGTAATCTTGCTTTCCTTACCATG}$
	294801	${\tt TAAAATTCTGATTATGTTTGCACGGTGTAATCAGAAAACAACCACAGTTA}$
	294851	${\tt AAGGTCAATATCACAAGCAAAAAAAAAATAAAATGATATACCATTCATT$
	294901	${\tt TAAGTAATCGACTTTAGAGGATCACTGTTAAAGAAGTATAAATAA$
15	294951	${\tt TCAGGGTATTAAGATGATTACAGCTAACACAAAGAATGTAATAAGACTTG}$
	295001	${\tt CTAAAGAAACATACTTAGTTATTAAAGTAATCATTATCCAAATTAAAAGA}$
	295051	${\tt CAGATTAAAAATCATCATAAAGATATTGCAAGTAAAGATCCACCAGTAGT}$
20	295101	${\tt AGCAATTGCCTTACCACCCTTAAACTTAAAATACAGCGGAAAGATATGAC}$
	295151	${\tt CTATTGTAGCTGCAAAACaACTTAAATAACTTAAAAAATAGGTGCTTTGA}$
	295201	${\tt TACACTTTTTCTGTTAAATAACCTTGTAAACCAAAACGGAATAAAATTCA}$
	295251	${\tt GGTTAATAAAAAAGCAAAAAAACCTTTAAATGCATCAAAAATAGCCACCA}$
25	295301	${\tt AAAAACCAATTTTAAGCCAAAAACACGCATTGAGTTAGTAGCTCCTGGG}$
	295351	${\tt TTTTTGAACCAAATTCCCTGACGTTTTTCTTGAGTATTTTGCTGAAAAT}$
	295401	${\tt ATCAGCAAAAATAATTGAACCTAACAGATAACCAGAAGCTAGGCTAAAAA}$
30	295451	${\tt TGACCAAAATGGCAATTGCACTAGCTTGATTCATAGCTTGTAATTATCTT}$
	295501	${\tt ATTTAATGTTTCAATTATCTTAAGATCCATCAAGCTAGGTTTTTGTTTG$
	295551	${\tt GTTGATAAACTCTCAATAGGCATTGGTAGTGTTTCATTAAACAGTGTTTA}$
	295601	${\tt TCTTTAAAGTTAATTAGCTTTGGTCCTAAAATAACCAATTCCTTTGTTAA}$
35	295651	${\tt TTTAAACGGTTTTTTAGTTTTTCAATAACCAAAATAGGATATATAAACT}$
	295701	$\tt CTCGATCCTGAACTAGTGTTTCATTAACAATATCCCAACTGTTTAAACTT$
	295751	${\tt AAAAAACTACGTAATTCAATTAAATTAGATTGGGGTTGGATTACAAAACG}$
4 0	295801	${\tt ATTAATAAAGTTTTCTTTTTGGCTAATTATGTTAATGATTTTCAATCCAC}$
40	295851	${\tt CAAGTCCAGCAATTACCCCTATTTTGGGATTAATATTTAGTTCTGGAAGG}$
	295901	${\tt TTATTAAATCCATCACTAACAAAGAAGTGGATATTATTGTTATTTTAAA}$
	295951	${\tt TTTTTGGTAATTACTTAATAAAGCATTTTTACTAATATCACTGTTAACAA}$
4 5	296001	$\tt TGGTTAGGTTTTGATTAGTTTTTATTAGATAGGATGTTAGATAGGAATGA$
	296051	${\tt TCACAACCGATGTCATACACTAGCTTAGGATTAAATGATTGAACTAAATT}$
	296101	${\tt AGCAATTGTGCTAATCCTTTTTTTCATTAATTCTTAGAAATGACATACTA}$
5 0	296151	${\tt ATAGGATTGTTTCTAACTGCATGTCTCAATTTTCTAATTGCTTTTCTTTTCTAATTGCTTTTCTAATTGCTTTTCTAATTGCTTTTCTAATTGCTTTTTCTAATTGCTTTTTCTAATTGCTTTTCTAATTGCTTTTTCTAATTGCTTTTTCTAATTGCTTTTTCTAATTGCTTTTTCTAATTGCTTTTTTTT$
50	296201	${\tt AATTTGTCTGATCTTCTCTAGGGATCAAAATCTTTTGACCTACTTCAT}$
	296251	${\tt CAAGTGTTTTAGGTTCATTGTAAGGGGGGCATGCCAATCCGCATTCTAACA}$

	296301	ATTAACTCTTCTTGTTCAGAAAGATTATTGTTCAACAATTCATCAATTTT
	296351	TTCTGAATTTGAACGGCTTTCGGTAAACTCGTCAGGAGTTTGAGCGTCTG
	296401	TGTCTTTAACAAAATCACCAAACTGGGACTCTTCATCATGTCCAACTGTT
	296451	TTATCAAGCGAAACTGGATCTAAACTTAACCGTTTAATTTCAGCAATCTT
	296501	TTTAACATTAAATCCTTCAGCTTGTCCTCCCATCTTTTCAGCTAACTCCT
0	296551	CATCAGTAGGTTCTCGCCCTAACTCTTGATACAAAGCCCGTTCTGCTTTA
	296601	GCTAAGCGGTTAATGGTTTCTACCATATGAACAGGGATCCTTACTGTTCT
	296651	${\tt TGCTTGATCAGCTATTGCTCTTGTAATTGCTTGTTTAATCCATCAAGTAG}$
	296701	CATAAGTTGAAAACTTATTCCCTAAAGATCAGTTAAATTTGGAAATAGCT
5	296751	TTTAAAAGCCCCAAATTACCCTCTTGAATTAAATCATTAAAATCCAACCC
	296801	${\tt TCTTTCTAGGTGTTTTTTGGCAATAGAAACAACTAGTCTTAAGTTTGAAG}$
	296851	${\tt TAACCAACTGATTAATTGCATACTTACGTGACTCTTCATCAGTACTATTT}$
20	296901	AAAACCTTGGCAATCCGCTGTTCAGATTCAAAATCTAACATTTTAGAAAA
	296951	GTCAAGTGATCCTAAAAAGAACCTAACATTATCATCAACCTTATCACGGT
	297001	TAGAGATGTTCTTACTTGTTAACTCTTCAATATCTTCATCAATAATTGAA
	297051	AGGTCTTGGTTAGCACGAAATTCATGGATGTGCTCTTCAACATCGTGTTG
25	297101	GAGTTGAATCCCCTTATCACGTAGTTCATCCAAAACATAGATAATTTCAT
	297151	CTTCAGGTAGTTCAAACTTAGCGAGAACACTAATAATTTCCTTATTTGAA
	297201	${\tt AGCGTGATGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT$
30	297251	TAGAAGGTTGATGACTGTGTTGGTGTCATCATTTTCAATGTGGCTTTTTA
	297301	ACGATCCTTCTAAGATATCAAATAACTTCAGATTATTTTTTTT
	297351	GGAGCGTGTTTAGGTTTTCTACCCCTTCTTTTTTTAGGAACATCACTCTC
	297401	CTTATTTTCATGAAGGGTTTTGAGAAAAGCGATGTTTTCATGACGGTGTT
35	297451	TGCGTTGCACTTTATTGTCAACATAAATCATCTTTTTGTAAGGACGATTC
	297501	TTTTCAAGAATACGCTGTTTTTTAAGTTCAGCAATTAATT
	297551	TTCTGGTTTGGTTGAATTGGGTTTTTTCGCCTAGCGTTTTTTTGTCAGTGG
40	297601	ACATTTAGCTCAATGCGACTAGCATTATAATTTTAGCTTATATAACTTTT
	297651	ATAGCGTTAACTTTAAATTTTTTAAGCGCTGCTTTTGTTGTTTTAATAAC
	297701	GTTTGAAAGGTCTTTAGATAGTTTTGAAAATCATTAGCTTGATAACAAGT
	297751	TAATTCATCTAAAAAAATATCTTTAATTTCCAATAACCTTGCTTTATTGT
45	297801	TTAAAAGGTAATTTTGATCTAAAACACTTTCAAAACCAACTCAGTTAGCA
	297851	GTTTGATTTTCACTCCAATAGATCCTTGCTTTTTCAATAAAAAGTTCAAC
	297901	ATCAAACAAATTAAAGTTACATTCCTTAAAAACTTCATCTAGATGGGATT
50	297951	GTTTTAATTCAACCAAAAAGCGTTTATCAATTAAAGCAAACGCAAAGATT
	298001	TCAGGTTTTCACAACTCATTAACTGCTTCTTCAAAAGCTGTTTGCACTAC
	298051	TGCTGCAGTGGTTTTTTGCAATTCTTGTGGTGGTTGAGCATGGCCTGAA

	298101	${\tt TATTTATGTAAAAACGGTTGTTATCAAACTTAGATACAAGTTTTTCTTTG}$
5	298151	${\tt TGTTTTAAAACTGTTTCATACAGAGTTTTTTCATCACTATATTCAAGTAG}$
	298201	${\tt TTTAACCAAATTTTAATGAGAAAAATTAAAAAACTATGGTCGTTTAAAA}$
	298251	${\tt TTGTTTGGTTTTTGTTAAAAAAGCAATGATTTTATTAGTAATAACCCTT}$
	298301	${\tt TGATCAAGTTGTTGCTTTTTAAAAAAACTAACAAGATATTCAATTAGATT}$
10	298351	${\tt TTGTCTTTTGTTTGCTTGTAATATAACTTGCTCACTACCCTTGTTTAAAT}$
	298401	${\tt ACAGTTCATCCCAATCTTTATAGTTGTGTTCTCACTGAACAATTTCCACA}$
	298451	${\tt ATAAAATTGTTGTTATTAAGTTTTTCAATTAAGCTAAACACAGCATTTTG}$
	298501	${\tt ACCACTAGCATCATTATCAAGTGCTAAAACTAAGGTTTGTAACTCCTTAA}$
15	298551	${\tt AGTGAGCTTTAATGGCTTTAATTTGCACATCATTTAATGCTAATCCCATT}$
	298601	${\tt AATGCAACAGCTTCAAACTTGGAGTTTGTTAGTGTAAAAACATCAAAATA}$
	298651	${\tt ACCTTCCACAATAAAGAGTTGATTGAGGTTTTTATTTAACCTGTGAAAGT}$
20	298701	${\tt TAAATAACAGCTCCCCTTTTTTAAAAAATTCGTGATCAGCACTATTTTTAAAAAAATTCGTGATCAGCACTATTTTTAAAAAAATTCGTGATCAGCACTATTTTTAAAAAAATTCGTGATCAGCACTATTTTTAAAAAAAA$
	298751	${\tt TATTTCAGTTTGATGTTATCAACACTTCTTGCTGAAAAACCAACC$
	298801	${\tt GTTACCATTAAAGTCATGGATAGGGATCATAATCTGGTTTTGAAAGGTAG}$
	298851	$\tt CTTTTTTGGTATTAAAGTCAAAAAAGCCAAGACCTTGCTGGTTAGTTTTT$
25	298901	${\tt GAAAAAGATACAATTCACTCGGTTTTATCTTTGGATTAATGAAGGGGTA}$
	298951	${\tt TCTTTCCATACTTTCACATAGATACTTATCTTCATTGTGAAAAGCAAGTC}$
	299001	$\tt CTAGCTGAAACTGTTCAATTAATGTTTTATTAAGCTTTCTTT$
30	299051	${\tt AAATAATTCATCCCATTTGGGTTTGTTTTCTCTTTTTAATCTGGTTTGATA}$
30	299101	${\tt ATAAGTAATTAAAGCATTGTTTATCTCCCAATATCGTTTTTGTTTTGGAT}$
	299151	${\tt CAACTTTTGTTAGTAAATTACTGTTCCAATTTTCTAACTTAATTCCACAA}$
	299201	${\tt ATTTCAATTGCTTTTTTAAGTGCAGTTTTTCAATCTAACTGGTCATGCTT}$
35	299251	${\tt TTGGATAAACGCTATTCCGTTGCCAGCTGCATTACAAGCCCAACACTTAA}$
	299301	${\tt AGATGTTTTAGAACTGGAAATGGACATAGAAGGATTTTTATCATCATGA}$
	299351	${\tt AAAGGACATAAAGCAAGTAGACTATTACCCTTAGTTTGGATTTTAACCCCC}$
40	299401	${\tt GTAGTGTTGAATATTTCAGTAATTTTAATCTGCTTTAAAAGTTCATCTA}$
40	299451	${\tt AACTGTTGCTTTATTGACCATTTTTCATGAATCATTGTGGTAATTCTTT}$
	299501	${\tt GATAGCAATTCGCTGTTGAACTAAAGTATCTCTATCTCTGATGGTAACTG}$
	299551	${\tt CATTATCTTCTAAACTTTCAAAGTCAAAAGTGACTGCATACTTTATTCCA}$
4 5	299601	${\tt ATTGCATCTGCTTTTCGATACCTTTTACCAATACTACCAGTTGTCTCAAA}$
	299651	${\tt GCACACTCTTCACCTTGTTTTTGCTAGCGTTTCAAATACAGAAAATGCTT}$
	299701	${\tt CTTTTTTAAGTTTATTTACAAGTGGTAAAACAATAATTTGTTCAGGACAT}$
	299751	${\tt AAGTCAAATGGTAAACTCAATACTTCCCGTTCTTCCTCATTAATAATTTC}$
50	299801	${\tt TCTCCTATAACTACTGACAATTAGTGCATAAAATAACCGTTCAATGCCAA}$
	299851	${\tt CCGCAGgTTCGATTATGAAAGGTAAGAAATGTTGGTTTAATTCGCTATCA}$

	299901	AAAAAACTCATGCTCTTTTTTGAAAACTCTTGGTGTTGTTTTAGATCAAA
	299951	ATCACCCCTGTTAGCCAAGCCTCATAACTCCTTTAATCCGTGGGGAAAAT
5	300001	TAAACAAAAAGTCAGTAGTTTTTTTGGCATAATGAGCCAATTCTGATTGA
	300051	TCATATTCATGTTTTTTTAACAATTCTGGGTTAATTTTTAACACTGTTTG
	300101	TAGAAACTGTTCTACCATTATTAATTGTTTTTCAAACAGCGAATTTGCAT
10	300151	CATCAGGTTTACAAAACCACTCAATTTCAAACTGTTCAAACTCTCTAGTT
10	300201	CTAAACAAGAAGTTACCTGGGGTGATTTCATTACGAAAGCTTTTACCAAA
	300251	$\tt CTGGGCAATAGCAAAAGGTAAATTACGCTTCTTAGCTTGCAAGATATTTT$
	300301	TAAAGTTAATAAAGCTACCTTGAGCAGTCTCAGGACGAGAAAAACAAGG
15	300351	${\tt CGTTTATCGTTGTTTACAACCCCGATTTCAGTTTGAAAAAGTAAGT$
	300401	${\tt ATCCCTCACTTCTGATCAATTTTGGTTATGACAATTAGGACAGTTAACTT}$
	300451	${\tt TAAAACTATTCCAATCCTTTTTAGCTTTTATTTCAGCATTAATTTGATCA}$
00	300501	${\tt ACACGAAAGCGGTATTTACAACTCTTACAATCAACTAAAGTATCAACAAA}$
20	300551	${\tt GTTAGCTAAATGTCCTGATGCTTTTCAAACCAATTCGCTGAGAATAATAG}$
	300601	${\tt GGGTTTCAACTAAAAGAACATCAGCTTTATTTTTAATAAAAAAGTTATAT}$
	300651	${\tt AAAGCTTGTTTGATTTGTTTTTAAAACTGCACCTAATGGACCAAAATC}$
25	300701	${\tt CCAACTATTGTTTAAACCGTTGTAAATTTCACTACTCTGAAATACAAAAC}$
	300751	${\tt CATGTTGTTTGAGAAACTGAACATAAACTTCTTGGTTGTAAACTTTAGCC}$
	300801	${\tt ATTGTTAATTAATCTTAAAAATTAGTTTTTTCAAGCAAACAAGATAATCC}$
	300851	${\tt CTAAAGCAACACTTACATTTAAAGAATTGATCTTATTGTTCATAGGAATT}$
30	300901	${\tt TTGATTCTACAATCTGCATTCTTTGTTATTAGTTGATTCACACCCCTATC}$
	300951	CTCATTGCCAACAATTAAGATTTTTTTAGCAAAATCAACTTTGCGATAAT
	301001	CAATTGGTTTTCAAATAGGATCCAGAGTTGAAACAACAGTTCAAAATCCT
35	301051	ATTTCTTTTAGCTTAGTGATCGTATAACTTAAGTTAGCTACTTGCACTAA
	301101	GTTTTGATAAAAACACTACCCATACTAGTTTTCATGACTGTATTGTTGA
	301151	TAGGGACTTGGTTATTCTTTTTAAAGATAATTCCATCAACCTCACTAGCC
	301201	AAACAAGTTCTTAGTATAGCACCAAAATTATAAGGGTCTTGGATCTCATC
4 0	301251	TAACATCACAAGTGTACTGCACLTCTTATTTTCAACTACTTTAACCAGTT
	301301	GATCAAGTGGAATTAAGAGTTGGTTAGTATCTAAAACTGCTACCAATTCC
	301351	TGGTGGTTAATATCTCTATACTGATTGTTAAATCAGTTAGTT
4 5	301401	TTGAAAATTAATTTTTTTAGCTTCAATTAAAGGTATTAGTTTTTTGTGAC
	301451	GAATGGAAATGTTTACCAATTTAATGTGAACTTGGTTATTAATCGCTTCC
	301501	TCAAAGGCTTTAACACCAAATAAGCAACTTTGTTGGCGTGGTTTTTTCAT
	301551	TATTACAGCAACATTTTTTTAATTAGTTTTTTTCTAATTTGATCAGCTTT
50		ATCCATTGCTTTTGTTTGTGTAATATTGATCACTCTTTAATTAA
	301651	CATTAAGTTTAGTATGGATAGATTTAAAGCTAATTCCTAATAAATCAATT

	301701	${\tt GATCATTCCAAGAAACTAAGTTGTTCTCTCAGCACACTAAAGTCCTTAGT}$
5	301751	${\tt TTTAATACTTGTATTAATTTTTTTTTTTTTTTTCAGATAGCAGCAACTG}$
	301801	${\tt CATTGGCAAAGTTGAGATTATCAAGTAAAGCTGAAAAAACTGGATCATAT}$
	301851	${\tt TGCTTGGGACTAATCAACTCAGATTGTTCTGAATAAACTAATCAGGTTCT}$
	301901	${\tt AGCAACATTAAGTGTTTTTGCAATCCTTTGAATATCATTATTAGCTTTTT}$
10	301951	${\tt CAATCAATGATTGGTTTAGATCAATAGGATGCAAATAGTGTTTTTGGTAA}$
	302001	${\tt AAGATCCAACGCAAAACACGAAAATCATGAAAGTTAAGAAAATCAACTGC}$
	302051	${\tt TAACAAGAAGTTCTGCAATGACTTTGACATCTTTTGGTTTTCAATCATCA}$
	302101	${\tt AATGACCAATATGCATCCAATGTTTGGTAATGGGCTGGTTATATAAAGCC}$
15	302151	${\tt ATGTGTAAGGCATTTCATTTTCATGGTGGGGGAACTTTAAATCAACTCC}$
	302201	${\tt TCCTCCGTGGATCGTGAGTTCATTTTTGAAACAATAATCAATTAAGAAGG}$
	302251	${\tt CACATTCAACATGTCAACCTGGTCTGCCAAGTCCCCACTTACTATTTCAT}$
20	302301	${\tt TTAATCCCTGCAGTAGTAATCTTTCAAAGTACAAAATCCAATTTGTTCTT}$
	302351	${\tt TTTATCAGTATCAGTTTCTTCTAAATGCACCATTCGGTTAGCTAGATAAC}$
	302401	${\tt CATATTGCTTTAGTGAATTAACTGCAAAATAAACGTTGTTTTGAGTTGAA}$
	302451	${\tt ACATAAGCATGGTTTTGATTTACTAATTGATCAATATAGTCAGGGATTTT}$
25	302501	${\tt ATCGATTTTTCAGTGATTTGAATATGTTTAATAGGCAGAATATTTAGTT}$
	302551	${\tt TTTTTAAAAGTGATTTGTAAGCAGTGATTTGTTTTTTTTAACAACTGAT}$
	302601	${\tt TCGCTTACTTCTTGTTGAGCAATCTTGATGATCTTATCGTCAATATC}$
30	302651	${\tt AGTGATGTTTTGAACAAAATTAACGGTATATTTAGCCTTTTTTAAAACTC}$
	302701	TATTTAAAACATCAAAAACAATTAATGGTCTGGTGTTGCCTAAGTGCAAA
	302751	${\tt TCGTTATAAACTGTGGGTCCACAGAGATAAATGTTAATGGTTTTTGAAC}$
	302801	TAGTGTTGTTTGTTTTGACTAACACTGTCAACAATCATAAACCTATGTT
35	302851	CAAATTGCTTCATTAATGATAGGAATGTTCAGTTCTTTGGCGTGATTGAT
	302901	${\tt TTTTCTTAAAGTTGGTTTGTTTCCTGCAATAACAAAGTCAACTGTTGGTT}$
	302951	TGACTTCACTTGCAAACTGGCAATCAAACTTAGCTGATAATAAALCCTTA
40	303001	ATTTGGTCACGACTAATGTTAAAGCTACCGGTAATAAGAAAGCGTTTTTG
	303051	AAAATAAATACTGTTAGTTTCAAAGTTAATTTTCAGTGGTAATTGATCTG
	303101	TTTTTACTTGTCTTAATTCAAGTTGTTCAATTAACTGCAAATGGTTAGGG
	303151	TCATGAAACCAGTTATACAATGATTCAGCTACTGTTATTCCTACATCATT
4 5	303201	TAAACTAATTAAGTTCTCTAAGCTAGCATGCTGTAATGCTTTGATATTTT
	303251	TAAAATGATTAGCTAAALTCTTAGCTAATACATTACCAACATGCTTAATA
	303301	${\tt CCAAGTCCTGTTAGTAATCTAGCCATTCCTTTTTGTTTTGAATTTTCAAT}$
50	303351	GTTATCAACTAACTTGTTGAAAAGTTTATCACCAATCTTCAGATCTAATT
30	303401	TTAAAACTTGGTTTTTCTTGTCTTTTAAATCATAAAGATCAACTATAGAT
	303451	$\tt CTAACCAAATTGTGTTCATAAAGTTTGGTAATAGTATTAATATTCAACCC$

303551 TTCGCTCCTTACAAGTTTCATTGGTACAATACTGATCAA	CTTCATCAACT
5 303601 ATTTTGACTAGTTTTGAATTACATGAAGGACAATATTTT	TGCTCTTGAAT
303651 TATGATAGTGTCATTTTTTTTTTCAAGATTTACCTT	TAGTACTTTAG
303701 GGATAATTTCCCCAGCTTTATAGATAACAACAGTGTCAT	TGATCCTAATG
303751 TCTTTAGTTTTAATGTAATCAAAGTTATGTAAAGTAGCA	GCTGTTACTTT
303801 TGTTCCATCTAAATTAACACTTTCTAATTTAGCAGTATA	GTTCACTCTAC
303851 CAGTTCTACCAATCGTTATAAGAACTGCTGTTAATTTAG	TTTGAACAAAT
303901 TTAGGACTAAATTTAAATGCTATTGCCCAACGTGGTGAT	TTACTTGTAGC
15 303951 ACCTAATTGTTGATAAAAAAGCAAGCTGTTTAGTTTAAT	AACTAAACCAT
304001 CAAGATTAAAAGTTAACTGTTCTCGTTTTTTGTCAAACG	CTTCCAAGTAA
304051 TTAATTAATTGAAATTTGTTTTGAAAAACCCTGATGGTA	TCACTAACTGG
304101 GAATTTTCACTGCTTAAGCTGTTCTAAAACCATAGTTTG	AGTAGTGATTG
304151 ACTCTTCCAAACCATTAGGGATGTAATAAATAATGCCC	TTAATTTGCGC
304201 TGTGCAGTGATTTCACTGTTTAAATTACGTATTGTACCT	GCTGCTAGATT
304251 CCTTGCATTAGCAAATGGTTTTTCAAGTTGATTGTTAAT	TGCTAAAAAAG
25 304301 TTTTTTTATCAACAAAAATCTCACCCCTAATCTCAATTG	TTTTTGTGAAA
304351 GGGATTGTTAAAGGGATAGATTTAATGGTTTTAACATTA	TTTAAAACATC
304401 TTCCCCAACACTTCCATCTCCTCTGGTTAAAGCATGAAC	TAAAACACCAT
304451 TTTTATAAGTTAGAGAGATACTAACTCCATCAATTTTAG	GTTCAACTACA
30 304501 AATTCATTTTTGAGTTTGAAAGTTAATATTATCA	ATAAAATTAGC
304551 AATTTCTTTAGTTGAAAAAGCATTTTCCAAAGAGAGCAT	TTGGACTGTTAT
304601 GGTTTAACTTTTTAAAACCCTTCACAGCTTCTCCCCA	ACCCTTTGGGTA
35 304651 GGGGAATCAATTTGGATTAAATCAGGATGATCTTTTTCT	PAATTGTTGGAG
304701 TGACTTATACAACATATCATACTCAAAATCATCAATTAA	
304751 AAACATAGTAGTGATAGTCATAGTTTTTATTAAGTTAA	ACCAGCTGTTGA
304801 ATCTTCAATTTCACATCCATCACTACTATAAATAAGAAA	AAATCCTGACTT
40 304851 AGTTGATACCAATCAGGATTTTACAAAGAAGTTTTAATT	ITGGAGCAGATA
304901 ACGGGAATCGAACCCGCATCTTAACCTTGGCAAGGTTAT	rgttctaccatt
304951 GAACTATATCTGCGTTGTTACTTTAATATTTAGTATAT	TTTAACTTGCAT
45 305001 GGAATCTGAAAACCAAATTGCAATCCTGGATTATATTT	ITAACCAAGTCA
305051 ACCAGCCCAATCAACCAAAAATAGTTTGGTTCTCTGGGC	GAAGGGGAGGAT
305101 GAGAAAATTAATTTTTAATCCGCTTAAATGATTTTTT	
305151 TGTTGAAAATACTAATGATAGTAGCTTTTTATTAAGTT	
305201 TTGAAACTAAAAATTCAACGCCTTTAACCCAAGCTAAC	
305251 GCCAACAAATTACTAGCGGTTTTATTTGGTTCATTGCA	ATGAAAACAGTT

	305301	AAATAAACCAACTGGAAACTGATTTCTTGTAATTTTGTTTTTAGCTTTAT
5	305351	${\tt TATGGTTAAGACAATGCTGACTAAAACTTCAGTTAACTAAGATAAGTAAA}$
	305401	${\tt TTTGTAAACCAAAAGGGCATTTTGAGTTTTATTAAACAACAATGGCCTAT}$
	305451	${\tt TCTAACAACATTGGTAACAGTAGGGACCACATTAGGTACTCCAGTATTTT}$
	305501	CATTAACAATAGCCCAACAAGATGGTATTAAGCAAAATGCGGGGAATGAT
10	305551	${\tt GTCTTTATCTTTTGATTATCTTCTCTGTTTTTCTATTAGTTTAGGGCT}$
. •	305601	${\tt TGTTTCATCACTTATCTTTTTAGTCTCCAGCTTATTTTCAATTCGTCAGA}$
	305651	${\tt AAAAAACGTTGGATGCTTTGGATAAAGTGTTATCAAAATTTATTGATAAA}$
	305701	${\tt TACTTTTTTTAGATGAAAAAGAGATCAAAAAACAACTTAAATATCAGTT}$
15	305751	${\tt TAAAAACAACGGTGTTTGCTTTTTTTTTGGTTTTGATCAGGCAG}$
	305801	${\tt AGTTTCTTGAACAATCAATGAACTTAATGTTGTTGAAAGCAAACCAAT}$
	305851	${\tt TGTTTTATTTTAGTTGGTTGTAAAGAAAGTGAAATGACGCTCATTAAAAA}$
20	305901	${\tt CAAGATAGAACCTAACATTAACTTAAAACAAAACAGTTTTTATCTGGATT}$
20	305951	${\tt TAAGCAATGAAATTTCACAAGTAGAACAGATCAGCAAATTTAACTTGTTG}$
	306001	${\tt TTTAGGCAATTGAGGCTCAGTTCTGAACTATTTTACTTAGAAGATTTTTT}$
	306051	${\tt TGATTATCTAACTACTGCAAAACAGATAGTTAACTTTCTTT$
25	306101	${\tt AAACCTAACCTTGATCAATTTCAAGAAAATCAAAAGAAATTATTTGATTT}$
	306151	${\tt TTTAGCGTTATGAGCATTAGTAATTGGTACTGATTTTGAGTTTAATAACG}$
	306201	${\tt TGTTGTGATCATTTAATAACCACTTTGTAATTGATAACAGTTTTAAACAG}$
0.0	306251	${\tt GAATATGACAAACCCAACATTACTGCTTTCTTTAATCGTTCTTTGCAATT}$
30	306301	$\tt TTTTCAAGAAAATAGCTTGGTTTTAAAACCTGAATTGTTTAGTTTGCAAA$
	306351	${\tt AATACACAAAGGATGTTTATGGTTTAAATGTTATCAACCAAC$
	306401	${\tt AATAAGCACCCTATGCTAATTCCATTAACATGGGATAAAAAGCAAAAGTT}$
35	306451	${\tt TATTAGCTTTATTGAAAGCTGTGTTCAAAAATACAGTCAAGTTAAAAAAGG}$
	306501	${\tt ATAACCAGGTATTTAGTTTAACAGTTGGTAAGCGCGTCTTTTTCTATTA}$
	306551	${\tt TTAATAAATAAGCAGTTTAAACAAATTAAACTTGAAACAGCACTAAAGTA}$
	306601	${\tt CCTTGGCTTTAAAACTTCCCTTGGTGCAATGGACAGCACAACTGAGTCCT}$
4 0	306651	${\tt AATCAGTAAATAGAGGTTCAACTCCTCTAGGGAAGGCCAATTTATGATAA}$
	306701	${\tt AAACTTAGTTAAATTGCTAGGTTTTTATCTAGTTTTAGGGGGTGTAGTTT}$
	306751	${\tt AGTGGTAGAACAACAGTCTCCAAAACTGTCTGTGGGTTCGATTCCTTC}$
45	306801	$\tt CACCCCGCCATTTACAGATGCACTTCAATTCAAACTTTAAAGAATGCTT$
	306851	${\tt TAATAAGATTGCAAAAAAAGTTAATTCACTGGACAGTGAATACTATGAGT}$
	306901	${\tt TTTCTTCTTTTATTGAAAGGATTAGAACTACCTTTGGACTTTAATTGCT}$
	306951	${\tt TTAACTGTTTTAAGTAACCTAATCATTATTAGCTTTGTTTTAATTTGATT}$
50	307001	${\tt TTTTACTGATGGCTTTGGTCAGTTAAGGCTGTTATTCTTTACGCTTTTTA}$
	307051	TCCCCTTTTTTATCTCTTTATTAGTAGCAATCTTTCTAATCTTTCTT

307	101 AAT	TCATTCCGTAATTTTTTCAGATTAATGAAAAGAACTGGCTGTTCTT
307	151 ATG	GACCTGTGTTTTTTCCTCATTACCAATCTTTAACTTGTGGTTAATTG
⁵ 307	201 TGA	GATTAAATAAAACTATTAAGAATTTCGCTAGTGATTATGGTTTTAAG
307	251 ATT	GTTAATAAATATAACAGTTTAACAAGCGGAATTTTTGTGTTTGACTT
307	301 TGC	TGATTATGTTAGTTTTGAAGCCAACCTGACTAATTGAAAAAACACAA
10	351 ACG	ATAAAAATCGTAATTTTGTTAACTTCTTTGAAACAATAAGCAAAGAA
307	401 AAA	ACTGGTGTTGTTCAAAAACCAGTTCTTAACTTTCAAAGATTATATGT
307	451 TAA	TCGTTTGTACTATCAAAGTAAGCTAAGTGTTGGTAGCAACCAAC
307	501 CTC	CCCAAACTGCTTTTGATAACCTAAGAAACTATGTTGAAAACAAAC
15 307	551 CGT	GAAACAGTAAGGGTTAAGCAGTATATCCTCACTTAATTAA
307	601 TAT	TAATATTTATTGGTCTTTGTCAAAAAATAAGATGAAAAAAGGCAATCC
307	651 ACT	TTCAGAGTCAACCAGTTGTTTTTAACTGTGCTTCATGCAATAGCAAC
20	701 TTT	CACCATTGACTCCACTGCCAAACAAAAGGATCTTGCCATTGACATTTG
301	7751 TGG	BAAATGTCATCCTTTTTACATAGGGCAATTAACCAAACAAA
30	7801 ATG	GACGGGCTGAAAACTTTCTCAAAAGTTCAACGCTGGAAAGGCTTTT
30.	7851 TTA	AGAAAATAAAACTAAAAAGAGTAACCAAGCTAAAGTTGAAAAAACAAAC
25 30	7901 TAG	GCACCGTTCTATTAACGAGCTTTAGTGGATTTTGACAAACAA
30	7951 TTT	CCAATGTTGAAAAGATTGTTGAACTTACTGAACAACTTGAAAAAAGATC
30	3001 TCA	ATTAAACCTAACCTTAGCTTTGAGCAGATTAAAGTTATTAACAAAGAG
20		AAAACATAAACAACCTTTAATAGTTAAATTCAAGGAGTTGCAAAAGCT
30	3101 GGT	TTGAAAATGCTAATGAAGCTGAACAAATTCTTAACAATTCCAGCTTAA
		3AATTGCATGAAGAAGCTAAAAAAGAACTTGAAAAAATCAAAGCTAGT
30	8201 TTA	ACCTAGTTTAGAAGAGAAATTAAGTTCCTTTTACTACCGGTAGATGA
35 30	8251 AA	ATAACCAAAAGAATGTTATTGTAGAGATCCGTCCAGCTGCTGGTGGGG
30	8301 ATC	GAATCTTGCATCTTCTTAAGTGATCTTTTTAATATGTACAAAAACTAT
30	8351 TG	TACTAGTAAAAATTGAACGGTTGAACTTAATGAAATTATCCCTGCAAG
40		TGGGGATTAACTTTGTTTCTTTTGCGGTAAATGGTACTGATGTTTTTG
		AAACTCAAGTTTGAATCAGGAGTACATAGGGTGCAACGTGTTCCTTTA
30	8501 AC	AGAAGCTAAAGGTAGAGTGCATACCTCAACAGTTACTGTTGCTGTTTT
		CTCAATTAGAAGAGGTAGAGATCACCATTAATCCTAGTGATTTGAGAA
, ,		GATACTTACCGTGCTTCAGGAGCGGGTGGACAACATGTTAACAGAACT
		AAGTGCAGTTAGAATTACCCATCTACCTACGGGAATTGTTGTGGCTTG
		AAGAGGGTAAATCCCAGTTTTCTAACCGTGATAAAGCAATGAAAATGC
50		CGTGCTAAGTTATGGGAAAATGCTCAAAATAAACAACTCTCAACCCAA
		GGATTTAAGAAAAAGTCAAGTTGGTAGTGGAGAGAGAGCTGAAAAAAT
30	8851 TC	GTACCTACAACTATCCTCAAAACAGAATTACAGACCACAGGATTAAAT

5	308901	${\tt TAACTATTAATAAGCTTAATACTGTTATTTTGGGAGATCTTGATGAGATC}$
	308951	${\tt ATTGAAGCTTACAAGCTGATGAAAAGAAACAACAGTTGGAAAAGTTTAT}$
	309001	${\tt TAGTTAGATGACTCTGTATGAGTTTTTTTAAATCAAAAGTTAGTT$
	309051	${\tt AATCCAGTCCCCATTTTAACGGGGTATTTTTAACAATATTGGAACACTAT}$
	309101	${\tt GGTTTTCAATTTAAAACAATTGATAAACTCTGAAAAAGTAAGCTTCTAAT}$
10	309151	${\tt TACTAGTGAGTTAACTGATAAAATCAAACAACAATTAAAGTGTTATTTTA}$
	309201	${\tt TTGAAAAGATCCCTTTGCCCTATTTGTTGGGAACAATTCAACTAAGGAAG}$
	309251	$\tt CTTACTTTTAAAACTAAGAAAGGAGTTTTTATTCCTCGAATTGATAGCTT$
	309301	${\tt AGCACTAATTGCAAGTGTTAACTTAAAAAAAAAAAAAACTGCACTTGACC}$
15	309351	${\tt TTTGTTGTGGTTCAGGTACTTTAGCCATTGCTTTAAAAAAAA$
	309401	${\tt ACACTTGATGTTATGGTAGTGATATTGATATCCAAGCATTAAAACTAGC}$
	309451	${\tt GCAACAAAATGCATTAATTAATAACGTTAGTATTAATTGAATTGAAGCAG}$
20	309501	${\tt ATTGATTGATTGTTTAACAAGATAAAAACTCCGATTGATT$
20	309551	${\tt ACAAACCCACCTTATCTGAAAAAAACACCAACTAAATAAA$
	309601	${\tt TGAGCCTAAGCACAGCTTGGTTTTTCAAAATAAAAATAGTTATTTTGCAT}$
	309651	${\tt ACAAGCAGTTGTTTAATCTATTACTAACAAAACGATCAATTAAACAGTTA}$
25	309701	${\tt ATTTTTGAATGTTCTTTATTTCAAAAAGAAAGGCTATTAAATTTGTTTTC}$
	309751	${\tt AATCTTTAAATCAAGGCCGATTTTTAACTTTCAAAAACAGTTTATTGGTA}$
	309801	${\tt TGAAAGTTGATAATCAAAAACTCCCAGTAGTTGATATTAAAAATACCAAA}$
30	309851	${\tt ACTATTAAGCAACTTTTAAAAATGGGGCTAGCAGGAATTGTAAATACTGA}$
30	309901	${\tt TACACAAATGGGATTAATTAGTTATTCAGAGTCTACTCTTGACAAAATTA}$
	309951	${\tt AACAACGTGCACTTAACAAACATTATGTATCAATGTTTGGGTTAGAAGAA}$
	310001	${\tt TTAAAGAAGTTACCAAAAAAACTACAACAAATTGCTAGTTACTTTTGACC}$
35	310051	${\tt AGGTAGTTATACCTTTATTAAAAATAACAAGAGCTACAGGGTTCCTAAAA}$
	310101	${\tt ACTTGGGCTTATTAAACCTTTTTAATGCAATTGGTAGGGTTTTTTGTACT}$
	310151	${\tt AGTGCTAATATCAGTAATCAAAAACCATACACCAAATTAAGTGATTATCA}$
40	310201	${\tt AAACGATAGTTACTGAATAAAGCAACCTTGTTTTATTATTAGAAGCACTT}$
40	310251	$\tt CTAAAGTGCAATCAAATAACACACCTTCACTTGTCTATAATTTAGATACA$
	310301	${\tt AAACAGTTGGTTCGCACCACAGCTAAACAAACAAAACAGTTTCATAAATT}$
	310351	${\tt AATAACTAAACACCAGTTAGCTATCTAATACACAAACCAAAATGAAACCA}$
45	310401	${\tt AAGATAATAACAAGCTTTTCAATATAAAAATGCTTAATTCAGTTTTATTT}$
	310451	${\tt TTGAAATAAAACTATTTTTTTTTAATTAGTATATAGCATCAACTACTAAAA}$
	310501	${\tt CATAAGGGATGAAGCTCAAAGGTTTTTTAGCTGTTGGTGTTAGTGTTTTT}$
	310551	${\tt GGTTTTTCTGGTTTACTGATGGCTTGTAGTGTTGTAAGTCAGTTTGATCA}$
50	310601	${\tt AGTGGATGATGGCAAAATTAAGCTAGCATCTTCATTAACTTCGAAACGCG}$
	310651	${\tt CAGCGGAAGCTTTAGAGACAGTAGTTAAAAAATATAACGATACTAAAGAT}$

	310701 CCTGGTGATTATCCAATTGAAATAGTACAAATTGCTGGGGGTTATGATGG
	310751 GGGTAAAAAGGATGTTCAAACCAAGGTTAGTACCAAAGATAAAAATAACT
	310801 TTTATAACCTGATTTTAAACTATCCAGAAATAGTAAGTACCTTATCAAGG
	310851 TCTAAAATGGCTTTGAATTTTGATGGGGTTAATGTTGATAAACTCCATCC
	310901 TAACTTTTTAAGCTTTAACAGCAGAATAGGTGGAATTAGAGATGATGGAA
0	310951 TCTATGCTATTCCAATATCTATGTCCACTGATCTGATGGTCATTAATGGC
•	311001 CCTGTTTTACACTATATTCTAAACAGTGCTAGAAAAGAAGGTACACCAAC
	311051 TAGCACTACTGTTCAAGCAACTGTCAGTTCAAGAAGTGCAGAAAAAAAA
	311101 GTACATTAGAAATTGCAAATGATAGTGAAACTACTAAACTTTGACAGAAC
5	311151 ATCCAAACCACTGCTCAAAACAACAGTAATGAAACAACTAAGGAGCAAAA
	311201 ACAAGTAAAAAGATCTAGTAGTTCTTCATCTACAACATCTACTACTGGTG
	311251 AAACTAAAGATACTACAAAATCAGATAACAAGATTAAAGAGTTTTGGGGT
20	311301 GAATATCAAGAAGTGGATGGAGGGTTAAAGAATTTTACCTTTAAAGCAAG
.0	311351 CATCTTTGAAAACTGAAATGAAACGTTAGATTTTGCTACTAGAATAGCAA
	311401 ACTCTTTTCCTGAAAAGGTTAAAAATATAACAAATAAAACTGGGCTTGAT
	311451 TTACAAGGTGTTTTAGGAGTTGATAGTAGTTCTAATGCACTTTATGCAGC
25	311501 AGTTTTTGCAGCTGGTCAAGCTAACTATGATAACTTCTTTTTTAACATCG
	311551 ATAAAAGAACTGGTTATGCAGATTACTCTAACTTTTTAAATAAA
	311601 TCATACCAAAATTTAGAGAGTGTTTACAATGACTTTTATAAATTAATCCA
30	311651 AGCTAATGGTTTGTTTAACCGTGGTGGTTCCTATTCATCCAACTTTG
50	311701 AAAAATTTCACCAATTGGCATTCTCAGTATCTTCTTCTGGAGGATACAGT
	311751 TATTACTTTGCTAAAGATAATGCTAAGCGCTTAAAGTTTAGTAATTATGC
	311801 TATTGAATATCCTAGTTTTACCCAAACAATTCAAGCTCCTAATTCTTCAG
35	311851 AAACAGAAAGTAATTTACTTGGTACTTTTAAATTAAGTGAAAAAGATATC
	311901 AATCTATATAAAGGTTCAATTCCTAGTGGAAAACAACAAGGAGTTGATGC
	311951 TATCTTAATTAGTAACCCAAACTTAATTAATATTCTTGAACAAGCAAAAC
40	312001 AAAAAAACACTGCACAAGGAAGTGAATCAACCACTAACAAGATAATAGGT
4 0	312051 TATACCACCACTGCAAATGTTAATGTTGATAATCAAAACATCTTTTCTGT
	312101 TAGCAAACTTAACAACGAACAGTTTCAAAGAAAAATCATTGTTAATGCCA
	312151 CTGAAGAAACACTTGATCAATCCCAAACCTTACAGAGCAATGAATCAATT
4 5	312201 GTTTTACCAATGCCTGGTAAATACAAATCAACTGATAAAAATAAAGTAAT
	312251 GATCACCCAAGGTCCTAACTTAATAGGCATCCATGCAAATGAAAAAGAAA
	312301 ATATTGAAACTAAAAAATTTGTTAATTGGTTTTTAAATCAAAGTATTACA
50	312351 GATTGGAATAGTAATCAGCAAAAAATAGTGATCAAACAACAAAAAC
	312401 TGCTGCTGAATATTTCACTGATCAAGCTTCTTACATCCTTCCT
	312451 AAAAATTTAACAAAAGTTCAGATTTAGAATTGAAAGGCAGTAGTAGTTCT

	312501	TCTAATTTAACAACCAGTAGTGCTAGCGCCTCTTTGTTAATAAGTAATAA
5	312551	TAGTTCAACTGCAAGTTCTCCTGCTCCTAAAAAAACAAAC
	312601	ATACCTTTACAGCTAAAGCACTAGAATTATTCCAACAAGCTGCTAACAAT
	312651	GAAATTATTCCCTTTAGTGATCCAAGTGACTTTAGGAACGGCACATTCCC
	312701	${\tt TAATAATATAAGCAGTAGTTTTAATGCTGCGGTGAATTCTAAGGTTAGTTGTGCTGCGGTGAATTCTAAGGTTAGTTGTGTGGTGGGTG$
10	312751	${\tt TTAATCAATTTGTCCAAAACTTTATTAATAGTTTAGGATCTGGATTTAGAACTTAGAACTAGAACTTAGAACTTAGAACTTAGAACAACTAGAACTAGAACAACAACAACAACAACAACAAAAACAACAACAACAA$
	312801	${\tt AGATAATTAGTTAACCTCCCCCAACCTCTATTTTCTGTTACTAGTGCTAGTGCTAGTGTAGTGCTAGTGTAGTGTAGTGCTAGTGTAGTGTAGTGTAGTGCTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGCTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTGTAGTG$
	312851	${\tt AGGTGGCATTAGAGTATCACAACCTGAATAACCAAGTAGTCAAAGAGAGTAGTCAAAGAGAGAG$
	312901	${\tt TTGGAAGTGGAAGCAACTGATTCTTTTGATCCCACCCAAGGGTTGCAAAAAAAA$
15	312951	${\tt AGATAGTCCAGTGAAGGATTCAAGTAAACAAGGGGAGAAACTCCAAGAGAGAG$
	313001	CCATGTCATCAATGAGTGGTATGGCTACCTCTACAAGAGATAAAGCCCTC
	313051	${\tt AAGATTGAGGTGGAAAGGGGGGAGTCAAAGTGATTCACTTTTAAAAAAACGAAAGTGATTCACTTTTAAAAAAACGAAAGTGATTCACTTTTAAAAAAACGAAAGTGATTCACTTTTAAAAAAACGAAAAAAAA$
20	313101	$\tt CTTTGCTAAAAAGCCACTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACATAAGAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGACAGAGGTGAAACAGTAGTGGGAACAGAGGTGAAACAGTAGTGGGAACAGAGGTGAAACAGTAGTGGGAACAGAGAGGTGAAACAGTAGTGGGAACAGAGGTGAAACAGTAGTGGGAACAGAGGTGAAACAGTAGTGGAACAGAAGAGAGAG$
20	313151	AGTTGGATTCACAGAAGGATTTTCCCCAAGGAAAGGTTTGAAAACCGGTC
	313201	TTGAAAACAGATGAGATAGAAAAAAATAGGGGGATGGGGGCGACTTAGAC
	313251	$\tt TTTCTCCCCTGAATCGGCAATGGTAAACCCTTCTCCAACTCCCCCTCCCCCCCC$
25	313301	TTCAACTTCCGCTTCCTCAACCCCACTCCCCACTTTTTCTAACATTGGCC
	313351	TAGGGGTTAAATCAATGATCACTCAACACTTAAATCAGCAAAACACCCCGC
	313401	$\tt TGGGTGTTTACACCTGGTAGTACACCAGACATTTGAACAGGAGCAGGTTAGGGGTGTAGGGGGGGG$
20	313451	TAGAAAAGCTAATAACAACAATAACGGCATCCCTTTTGAACAGGTGAAA
30	313501	$\tt CTAGTAGTAGCAACACGTTTAATCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAATAAAAGTCCCAATTCAGATGATAAATAA$
	313551	ACACCATCAGGTGGCTCCTCCAAACCAACCACCTACACCCATTTACCCAA
	313601	CAGTATCAGTCCCACCAGTGACTGGATCAACGCATTAACCTTCACCAATA
35	313651	AGAATAACCCCCAGCGCAATCAGTTGTTAAGAGCGTTATTAGGAACT
	313701	${\tt ATTCCGGTCTTGATCAATAAGAGTGGAACGGGAGATCAATTTAACAAGGAGAGGAACGGGAGATCAATTTAACAAGGAGAGAACGGGAGATCAATTTAACAAGGAGAGAACGGGAGATCAATTTAACAAGGAGAGAACGGGAGATCAATTTAACAAGGAGAACGGGAGATCAATTTAACAAGGAGAGAACGGGAGATCAATTTAACAAGGAGAACGAGAACGAGAACGAGAACGAGAACGAGAACGAGAACAATTTAACAAGGAACAAGGAACGAGAACGAGAACAATTTAACAAGGAACGAGAACGAGAACGAGAACGAGAACAATTTAACAAGGAACAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAATTTAACAAAGGAACAAAAAAAA$
	313751	TAGTGAGCAAAATGAAACGAAACAGATAAATTAGGAGGCAACCTCCCGC
40	313801	${\tt GGTTTGGGGAGGTGAATGGTGCTTCTTATAAGATTTTTACTTATTTAAT}$
40	313851	${\tt ATTAAAAAAGTGTTAGGTTTTTTTAGTTTTTATCTATTTAATATTTAAAAAAAA$
	313901	GAAATTCTCAAATTTTTCTTAGTTTTTATTTGTTTAATAGTTAAAAAAA
	313951	${\tt GCGTTATGTTTATCTATTTATTAGTTAAAAAAGTTTTGAATTTTTATC}$
45	314001	TATTTTTAGTTAATAAAAGTCTTATGTTTTTATCAAATTTTTATCTGTTT
	314051	TTTGGTTAAAAAGTTTTAGATTTTCTTTCTTAAATTTATTT
50	314101	GTTAATAAAAGTGTTAAGTTTTATCTATTTTTAATTAATAAAACCTCGAG
	314151	CCCTCTTCCTATCAAATCGCTGACCAAACCATCCATAACACCAACCTGT
	314201	TGTGTTGTTCAAGTCTAGGGATGTGAAGCTTACATATAGTTCAAGTGGC
	314251	CAAATAACCAGATTAGTTTTGATTCAACTAGTCAAGGTGAAAAACCCTCC

	314301 TATGTGGTCGAGTTTACTAATTCCACCAACATTGGCATCAAGTGAAGGGT
	314351 AGTGAAAAAGTATCAGTTAGATGTACCGAATGTTACCAATGAGATGAACG
5	314401 ATGTACTGAAAGAATTGATCCTAGAACAACCCCTTACCAAGTATACCTTA
	314451 AACAGTAGTTTGGCCAAAGAAAAGGGCAAAACCCAAAGGGAGGTGCATCT
	314501 GGGTAGTGGGCAAGCAACTAATTGACGATCGATGCGTAACTCCATTGGTC
	314551 TGAATGACAATCCCAGCCCCAATGCTTCAACTGGGTTTAAATTAGACAAA
10	314601 GGCAATGCATATAGAAAACTAAGTGAATCCTGACCAATTTATCAACCAAT
	314651 TGATGGGACCAAGCAGGGCAAAGGGAAGGATAGTAATGGGTGGAGTTCAA
	314701 CTGAAGCAACAATGGCAGCAGGGGATGCGCCCCTAAGTACAGGAGGGAG
15	314751 TCATCAGATCAAAGTAATAAATTCACCAAGTACCTCAACACCAAGCAAG
	314801 ATTGGAAAGGATCGGCATCTTGTTTGATGGGGATGGAATGAGGAATGTGG
	314851 TTACCCAACTCTACCAACCCAACAAGGTGAAAAGTGGTCAATATCAACAA
	314901 AATAACACCTACAACAGGTTAATTGAGCCTGACAATGCAACAAGTGCAGC
20	314951 GAGCAGCATGACCAGCTTGTTAAAGCTGTTGTCTAGTAAAAACATCAAAC
	315001 AGAAGTTGGGGAAGGGGGAACAGCAATGCAGGGAAATAATGGTGGAGGG
	315051 GGTGTTAGTCAAACGATTAACACCATTACCACTACGGGAAATATTAGTGG
25	315101 CAATGGAACCATTCAAACGGCTTATCCGGTGAAAAAAGATGAAGCTTCAA
	315151 ATGTAGCGATCAATTCCTTGATTAACGCTACGCCCTTGAATAGTTATGGG
	315201 GATTTAAATAATGCTAGTTTTTCTAAATAATTAAATTGTTAATAACAAAA
	315251 AAATCTCTATTAAAAAAACCAACTTTAAAGTTGGTTTGAAATTCTAAATG
30	315301 GCGCGCCCAATAGGACTTGAACCCATAACCTTCTGGTCCGAAGCCAGACA
	315351 CTCTATCCGATTGAGCTATGGGCGCATATATTAATAAATTTTATTAATAT
	315401 AAGCAAGAACAATCTAATTCTTTATTAGAATTTAAACGATTTCATCTAAT
35	315451 AGTTCAAATCACATATGGCAAAAGATAAAAAAAAAATAAGGTTGATGGAACA
	315501 GAGCAATCAGTTGATCTATTTGAACGTACAAAACTTGAAGATACACAAGT
	315551 TTTAAATGAAGTTGAACTTGATGATATTAAAAAGATAACAGAGCTTAGAA
	315601 AAGAACTTGAACATACTTTTGAACCACAAACAAGAATGCAAATTAAGCGT
40	315651 GAAATTAAAGAAATAGAACGCAAAATGAAACGTTCTAGTCGCTAATTGAT
	315701 GTTTGTTAATTTACATACAAATTCATACTATAACTTTCTCAATTCTGCCC
4 5	315751 TTTCTCCTAAAAAGCTAGTTAATCTAGCAATTAATGATCAGCAAAAAAGCT
	315801 GTTGCTATTACAGATCCTAATCTTTTTGGCGCTGTTGAATTTTTTATAAC
	315851 TTGTAAGCAAAATAATATTAAACCAATTATTGGTTTAAACTTAACTGTTG
	315901 AATACCAAAAAATGATGTTAAGTTATTACTAATTGCTAAATCAAATAA
50	315951 GGCTTTCAAACGTTGAACAAAATAGCATTAATTCAACAAAAACTTGAAAT
	316001 TAATTCTTTAGTTGATCAACTAACAGATATTGCAGTAATTATCTGTTCT
	316051 TAACAACATGAAAATCTACTTATAAGGATGTTTATCAAGCAAAAGGAAT

	316101	GAAATAAATCAAACCCCGATTGCCATTCTTGCAAATGCTGTTAACTGTGA
5	316151	${\tt AAAAACTAATAGCGATCAAGTAGTTTTAACAGTTTTGAAACAAATGAAAC}$
	316201	${\tt AAAACCAAACGGGAAAAATAACTACATTTGATTGGGATCTTAAACAAAAA}$
	316251	${\tt TTAAATCAAATTTCAATTAATGAAAATTTAAAAGTAAAGAGTGAAATTCA}$
	316301	${\tt ACCTTTTTTAGATCAAAAAACTGCACAACAATTATTCAGTGAAACAGAAC}$
10	316351	${\tt TTAATAATCTGAATGATCTAGTTAATAGATGTGAATTAGATTTGGAGCAC}$
	316401	${\tt CTAAAAGCTGCTTCACTTTCTTTAACTGATAATGATGCAGCAGTTTTAGA}$
	316451	${\tt AAGTTTGTGCCAAACCAATTTAAAACAGTTTTTAGATAAAAATCAAGATc}$
	316501	${\tt TAAATAAAAAAGCCTATCAGCTACGTTTAGAGAAGGAATTAAATGTTATC}$
15	316551	${\tt AATAAACTTAATTTTGCTAGCTATTTTTTTTGTTGTCAATGATCTTGTTAA}$
	316601	${\tt TTATGCTTTAAAAAGGACATCTTAATTGGTTCTGGTAGAGGTTCTGCAG}$
	316651	${\tt TAGGATCATTAGTGGCTTTTTTTTTAAACATTACCAAGATAGACCCAGTC}$
20	316701	${\tt CAACACCAGCTTATTTTCGAACGTTTTATCTCAACCCACCGTCAAGATCT}$
	316751	${\tt ACCTGATATTGATATTGATATCATGGAGAATAAAAGAGCAGAAATGATAA}$
	316801	${\tt ATTATCTGTTTGAAAAATATGGCAAAGAAAACTGTGCACAAATTGTTACT}$
	316851	${\tt TTTCAACGTTTTAAAACCCGTTCTGCTGTTAAAGAAGTTGCTAAATTATT}$
25	316901	${\tt TAATGATTATGGCATTAGTGACATGATCCTAGGAGTGTTACCTAAAGATC}$
	316951	${\tt AAACTATAACATTCACTGATCTTAAAGCTACTGAAGATAGTGCTTTACAA}$
	317001	${\tt CTTTGTTTACAACAGTTTGGTTTAATTGTTGAATTAGCACTAGCAATAGT}$
<i>30</i>	317051	${\tt TGATTTCCAAGACAATCAAGTATCCATGCTTCAGGCATAGTTATCGCTT}$
	317101	${\tt CAAATTCTTTGATTAAAACCATTCCCTTGTTACAGCTTGACAATAATCAC}$
	317151	${\tt TTTTTAACTCAAGTTTCAATGGAATGGTTAAGTTTTTTAATCTCAATAA}$
	317201	${\tt GTTTGATCTGCTTGGTTTAATTAACCTTACTATGATTAGCGATGTAATTA}$
35	317251	$\tt CCCAAATTAAACCATCTAACCAGACCGTTAACCAGTTTTTAAATACCATT$
	317301	${\tt TCTTGAACTGATCAAAACACCTTTATAAACTTAGTAAATGAAGATACACT}$
	317351	${\tt AGGAATCTTTCAACTTGAATCGTTTGGCATGAAAAAATTACTGGTTCAGA}$
4 0	317401	${\tt TTAAACCTAAAACCATTAATCAACTAGCAATTGTTCTAGCGCTTTACAGA}$
, -	317451	${\tt CCAGGTGCACAGGATAACATTAACCTTTTTATTAACCGCTTGCACAATGG}$
	317501	${\tt TTATGATCAATCTGACATTGATCCTAGGATTTTACCCATTGTGAAAAATA}$
	317551	${\tt CCTATGGAGTTTTAATTTTTCAAGAGCAGATCATTAACATCGTTAAAGTT}$
45	317601	${\tt GTGGCTAACTACTCTTTAGAAGAAGCAGATAGCTTCCGTAGAGCCATTTC}$
	317651	${\tt TAAAAAGGATGTTAAATTGATCCAAAAAAATAAGCGTAACTTCTTTGAAA}$
	317701	${\tt GAGCAGTTCAAAATAACTTTGATTTAAAGACTACTACCAAAATTTTTAGC}$
50	317751	${\tt TACATAGAACGCTTTGCTAACTATGGGTTTAACCTTTCTCATGCGTTGGG}$
	317801	${\tt TTATGCACTGCTTTCATACTGAACAGCTTGACTTAAAACTAACT$
	317851	${\tt TTTATTTTATTTATGGTTATTAAACCATTTTCAATCTAGTAAAGACAAA}$

	317901	${\tt CAAAAACTAATTATTAGAACTTTAGAAAAAAGTGGTATTGAAATTTATCC}$
1	317951	ACCTCTTTTAAATAAAGCTCAACCAAATAGTGTTATAGAAAATAAAAAAA
	318001	${\tt TTTATTTAGGTCTAAACCTAATTAAGGGAATTAATGACAGGTACATCCAA}$
	318051	${\tt AACTTACAAAAAGTGCAACATTTAATTCAAACTCAAAATAACTTACAACT}$
	318101	${\tt AACTGATGTAGTAAGTTGGTGTTTTGGATAAAACCATTGGTGATATCCCTT}$
0	318151	${\tt TAAAAGATTTACTTTATTAAAAACTATGGGCTGTTTTGATTTTTTGAA}$
•	318201	${\tt TACACTTATGACTTTAATGATGCAAAGGATTTTTGAATTAAAAGCGATCA}$
	318251	${\tt CCTATTGTTTACCAGAATGCCTTTAGAAAAAAAGGATAGTAATTTTTGAA}$
	318301	${\tt TTAAACAATTTTTTACCAATTAGTTGAACATGAAAAAAGCAATCCTGATT}$
15	318351	${\tt GATGGCAATTCCTTAGCATACCGTGCTTATTTTGCAACGTGAAAACAAGT}$
	318401	TGAATATGCTAAGCAAAATAATTTACCTTTCAATAATGCAATAAGAACAA
	318451	TGTTACTAATGTGTTGGAATTTAATTAAAGCCAATGTTTATCAATATGGA
20	318501	ATTGTAAGTTTTGACACTAAAGCGCCAACTTTCCGTGATCAAATCTATGA
	318551	AGGATATAAACAAAAAGGGTTAAAACTCCAGTTGAACTTTTAGTACAAA
	318601	TTCCTCTAATTAAACAAGCGCTTGTTTATTTAGGGTTTTTAGTTTGTGAA
	318651	AAAGATGGCTTTGAAGCAGATGATTTGATTGGTAGTTATGCCAATTTATT
25	318701	TACAAAGCAAGAAATAACAGTTGATATTTACAGTTCAGATCGAGATATGT
	318751	TGCAATTAGTAAACGCCTTTACTAATGTGTTTCTCTGTATTAAAGGTACA
	318801	AAGGAGATGGTTATGTACAACAATGAAAATTTCAAATCACTTTTTATGG
30	318851	TTTGGCGCCCTATCAAGTTGTTGAATATAAGGGGTTAGTTGGTGATAACA
	318901	GCGATAATTTAGCAGGGATTAAAGGGATAGGTCCCATCAAAGGGATAGAA
		TTACTCCAACAATATGGAACCATTGATAACATCTACACTAACTTCAATAA
	319001	TCTCCCCAACCAACTTCAAAAACTTTTAAATAACCAAAAGGAAATAGCTA
35	319051	AAACCTTTAGTTTTCTAGCTAAAATTAAAACTGATATTGAACTTGATCAA
	319101	AACATAGATCTTACTGGTTTAAAACCAATCCAAAAACAAGCGTTAATTCA
		ACTTCTAAGTGAAAACAAAATTAATACTTTAGTTGAAAAATTTTCAAAAA
4 0		TATAATGCCTGAACTTCCTGAAGTAACTACTGTTATTAATGAACTTAAAG
40		AAACTGTTTTAAATAAACCTTTAGATCAAGTTCAAGTTAACCTAAGAAAG
	319301	GTTTTGAAAAATATTGATCCTCAATTGCTGAATAAACAATTAAAAAATCA
4 5	319351	GTTTTTTACTGATATTAAGCGTAAGGGTAAATATATCATTTTCTTTTAA
		GTAATGGTTTGTATTTAGTTTCGCATTTACGTATGGAAGGTAAATACTTT
		TTTGAAGAAAGAGGTAGTAAATTTAATCAAAAGCATGTTTTAGTAGAATT
50		TCATTTTGATGATGGTAGTCAACTCAATTATCATGACACCAGACAATTTG
		GAACGTTCCATTTGTATGAAAAGTTAGAACAAGCAGCACAATTAAATAAA
		CTTGCATTTGATCCTCTAGAAGCTGGTTTTGACTATAGGAAAATCTTCCA
	319651	AAAAGCACAAAATTCAAAACGTAAAGTTAAAACTTTTATTTTAGACCAAA

	319701	${\tt CAGTGATTAGTGGAATTGGCAATATTTATGCAGATGAAATCTTATTTGCA}$
5	319751	${\tt AGCAAAATTAATCCTGAAACAATGGTTGATCAACTAACAATTAAAGAGAT}$
	319801	${\tt AGAGATTTTATGTAAAAATGCTACCAAAATTTTAGCTAAAGCAATAGTTA}$
	319851	${\tt TGAAAGGTACTACCATCAGCAGCTTTAGTTTTAAAAAAGATCATACTGGA}$
	319901	${\tt GGCTATCAAAACTTTTTAAAAGTTCACACTAAAAAAGATCAACCTTGCTC}$
10	319951	${\tt AGTTTGTAACCAATTAATTGTTAAAAAAGAAGATTAATGGAAGGGGGAGCT}$
	320001	${\tt ATTTTTGTTTAAACTGTCAAAAAATCACAACCAAAGTTTCTACAAAACTC}$
	320051	${\tt AATCCATAAATTTTTTAAAACTTTAAAATATCTTAAAATTAACTTTTAACA}$
	320101	${\tt AACTAATTGAAAACTTTATTTAACAAAGTAATGCTGTAATTAAT$
15	320151	$\tt GTTAATGAACATTAAATAACATTTATGAAAAACGAAATTAAATATCTTTA$
	320201	${\tt TTCTGACTTGGATGGTACTATTGTTAGCTGAAATCCTAAAACAGAATTTG}$
	320251	${\tt TTTATCAAAATAAAAGTTATAAAAATTTCCATGAAGTTAGTGATGCTACT}$
20	320301	${\tt ATTAGTGCTTTTTACCGATTGCAACAAAAGGGAATTAAGGTTGGTATTGT}$
	320351	${\tt TACTGGTAGGGATTATTGTCGGGTGTTATGACTTGAAAAACAACTTAGAA}$
	320401	${\tt CAGGATTGCCTACCATTACTTTAGATGGGGCTATTATCTTTTATCAAAAC}$
	320451	${\tt GAAATCTTAAGTCAAACTTATTTAGATGATAGATTTATTGAAGGGATTAA}$
25	320501	${\tt TAACATAGTAAAGCGCTTTCCTGAAGCTGCTTATAAACTTAACAGTGGTT}$
	320551	${\tt GAATTAGTTACTTACTAAAAACCCTTCTGTTATCTTTGAAATTGATTAT}$
	320601	${\tt GCTTTTCTTGGCTATTTCAACCCTAACACCAAACTACAAAAAAAA$
30	320651	${\tt AGACAGTACTGAAAATTGAGATCTTAATAAACTAAAAGTTAATCAGGTTT}$
	320701	${\tt ACTTTGATATTGATACTTGCCCCTTAGCAATGCAAAAGGAAATAATTGAA}$
	320751	${\tt CTAATTAGTGTTAGTGATGTAAATGCCAAAATCTATGAGCACTCTATGTA}$
	320801	${\tt CATTATTAAAAATGGTGTTTCTAAAGCTAGTGCATTGCAAAGCCTTAACC}$
35	320851	${\tt AGTTTGCAATTCCAATAACAAAAGATAACACTATTGTTTGT$
	320901	${\tt GATAATGACATTGAAATGATGCAGTGAGCTAAACACAGTGTCTCACTAAT}$
	320951	$\tt CGGTAGTAATCCCAAATGCTTTGCTCTAGCAAAATACCACACTGATAGTG$
4 0	321001	${\tt TTGACAATGATGGTATTGCTAACTGGATTGAAAAAAACTTGTTATGTTAA}$
	321051	${\tt TTGCAATCGTAGGTAAACCAGGTGTTGGTAAAACCAGTCTATTGCAATAT}$
	321101	$\tt CTCAAAGATAACTATCACTTTTCAGTTTTTTATGCAGATAGTTTTATCCA$
	321151	${\tt TGAACAGTACCAAAAAAACAATCCAGGTTATCAATTAATCATGGATCATT}$
4 5	321201	${\tt TTGGCAAAGAGTTTGTCAATCAAACTGAAGTTGATCGTAAAAAACTAGCA}$
	321251	${\tt AACTATGTTTTTAGTGATGATAAGTTAATCGAAAAACTTTCACTAGTAAC}$
50	321301	AAAACCGCTGTTAATAGCGTGAATCAAATCCTTAAAAACCCAGTTTCAAA
	321351	${\tt AAAAGCTAGCACTAATAGAGATTGCTGTGATGCTTAACTATTGAAATGAA}$
	321401	${\tt TATAGATCGTTGTTTATGTGATTAAATTAGAAAGGGATGATCAGCT}$
	321451	${\tt AGTTAACTTAGCTTACAACAACGTAATAGTCATAAAAAAGTTAAGGATT}$

	321501	TGATTAAAGAGCCTAATTGCAAAATAGATACAATTTTCAACAACGATTCG
	321551	ATTGCAACAGCTGCTTTAAAGCTAATTAAGTTGCTAGAAACTTTTTTAGA
	321601	${\tt AAGAAATAAATGCCGTTGTGATTGTTGTCATATTCAGTAATAAACTTAGC}$
	321651	${\tt ATTTTTTTAGCTAAATCAGTGCCATTAACCAAAGCaACTGGCCATTTAA}$
	321701	${\tt CACTTTGAAATATTTCAACATCATTATCAGCATCACCAAAGACCATAGTC}$
0	321751	${\tt TTTTCAGGATCAAGATTATAATTATCAACTAATACTTTCAATCCATAAGC}$
·	321801	${\tt CTTATTAACATCTTTTTGCATGATATCAAGAGCAAATGTCATTGAACTCA}$
	321851	${\tt CATAGTTAATATCTTGAATTTGATCTAGTTGTTTTGCTAGAAAAGGAACT}$
	321901	$\tt TTTTCTCTGTTTTTAGTTACCAGTAAGATCTTTGTAATAGTATGTTGCTT$
5	321951	${\tt AAAATCAAAATCCAAAGCTTTTTCAAACTTGTTAACTATGTAGTTATTTT}$
	322001	${\tt CAATGAGATCAATTCCTACTATTTGACTTCTAGTTGAAAGAATTTTAGCT}$
	322051	GAATCAAGCTCATGTGTAAAAGCAAAAACCTTTTTATCTGTATAGAAATA
20	322101	${\tt AAATGTTTCTTGAAATTCCAACAACATTTGCATAATTGCAGGTATTACTT}$
20	322151	${\tt TATTATCAATAGGTTTGATATGAACTGGTTTTTCACTAGCAAAATCATAA}$
	322201	${\tt ACAAGTGCACCATTGGAAGAAATTACAGGTAGATTTGGTGTAATAAAGGT}$
	322251	${\tt AGCTGTGTTTCTAATTAAAATATGGCTTCTACCACTAGCAAAAGTGATTC}$
25	322301	TAATCCCTTTTTCTGTAAATCCTTTAAAAACTCAACTGTTTGTT
	322351	${\tt GGAATTTGGTTGCTTGAAAGCAAGGTACCATCAAGGTCAAAAATAATGTT}$
	322401	TTTCAGTTCCATTTAGCTATATACTTTTATCTATTTTTTTAAAAGAACAT
00	322451	TAATAATTCGATCCTGAACATAAACTACCCTCTCAATCGGTTGGTT
30	322501	ATGTCATTTATCTCTTTATCCTGTTTAAATGATTCTAAAACATCTATCT
	322551	TAAACTACCTTTAGTAAATTCTTTAGCTGCTTTAAATTTGCCATTAATTG
	322601	AAAGAATAACCTTAGTTTTAGCAGTCTCAAAAAGTTGATAATCAACTAAA
35	322651	GAAATCGCTTGTTTAACAACAAATGGTTCAAGTCCACATTTTTCATTCA
	322701	TTCTTCAGCAAGAAGGGCGCAAAAAACGACAGTACTGTTAAAAATCCCT
	322751	TTGCATAATTTAAGCTAATTTTTTTGGTTTTATAGAGAAAGTTTAAAAAG
40	322801	ATCATCATTTCACTAATCACCAGATTTAGTTCATGTTTGTCAAGATGACA
40	322851	ATAACTGTTTTTTAAAAACAAATTGTAAGCAAAGATTGTCTCTTGACTAA
	322901	CTTGATCAGTAACAACAGCATGATTAAAAAAGAAGTTATAAACTCGATCC
	322951	AATCACCTTCTCATCCCGTTTAACCCTTCATCATTTCAAGTTAAACTAGC
4 5	323001	ACTAATTGGGCCCATAAACATTAAGTACAACCTTAAAGCATCTGCTCCAT
	323051	GTGAATCAACAAGTGGTGTGGGGTTAATGGTATTACCTTTGGATTTGGAC
	323101	ATCTTTTTACCATCAGGACCTAACACCATACCCTGATTAATTA
50	323151	AAATGGTTCTTTTGTTGATACTAGCTTCTTGTCAAACAAA
	323201	AAAAACGGGCATACAAAAGGTGTAAAACTGCATGTTCCGCACCCCAACA
	323251	TAAAGATCAACTGGAAGGTATTGATCAAATAATTTCTTCGCTTCTTTTGA

	323301	${\tt ATCAATTGGTCAAAAATTAGGGTTTTTAATCAACATTAAATAACCCAGAT}$
	323351	${\tt AATACCAACAAGAACCAGCTCATTGGGGCATGGTATTAGTTTCCCTTTGG}$
5	323401	${\tt TAATGGATGTTATCTTTGACTATGTTTACCCAAGCTTGATTTCTCATTAG}$
	323451	${\tt TGGAGAATTACCACTTCCATCTGGTTTGTAATTCTCAAGTAAGGGTAATT}$
	323501	${\tt CAACAGGGAGTTGTTCTACCAAATGAGGAGTGTTATTTCATCAAAAATA}$
10	323551	${\tt ATTGGAAAAGGTTCGCCCCAATAACGCTGTCTACTGAAGATCCAATCACG}$
	323601	${\tt CAGTTTATATACAGTTGTTAATTTCGCTTTATTTTGTGAAATTAACTCAT}$
	323651	${\tt TAGTAATAGCTACTTGTGCTTCTTTAGTTGTTAATCCGTTATATGCAAAT}$
	323701	${\tt GAATTTTGCAGCCGTTCTTTTTTTTCAATGACGTTGATAATTTTCAACTT}$
15	323751	${\tt TTGTTTACGTGCGAAGAAGTTATCATTTTCATTGTGTGCTCCAACACCCCA}$
	323801	${\tt TAATAGCATCTGTTCCATATCCTTCAATTACATAGTTAGCAACATAGACA}$
	323851	${\tt GGGATCAATTCATTTGTAAGAGGGTGAATAGCATTTGTTAATAAATCTAT}$
20	323901	${\tt CCCATCATATAAAGTTGCTTTTTGCTTTAAAGTTGTGGTTTTCTGGAGTT}$
	323951	$\tt GTTTTTTAAAAAACTAGCTACTTTTTTTTTTTTTTTTTT$
:	324001	${\tt GCTAACCAATGGTTGGTAAACTGCAAGAAAACTAACCCCAAAAATTGT}$
:	324051	${\tt TTGTGGTTTAGTTGTAAAAATTGCAATAGCTTCCTTATGATCTTTTAGTT}$
25	324101	GAAAGTTAATAGTAACACCTTTACTTTTACCAATTCAGTTCCGTTGCATC
:	324151	TCTTTAATTGGTTCAGGTCAATCAAGTGTATCTAAGCCTTCAAGAAGTGC
:	324201	ATCAGCAAAAGTAGTGATTTTCAAAACTCACTGTTTCATCTTGCGTTTTT
<i>30</i>	324251	CAACTGAAAATGAACCCCTTTCACTAACTGCGTTGCCATTACTATCAATT
	324301	AAAACTTCTTCATTAGCCAATACAGTACCTAGCTGTTCACACCAATTAAC
:	324351	ATCAATATCAACTAATTCCGCTAGGTTTGCTTTAAACAGCTCACTGAAGA
;	324401	TCCATTGTGTATTTGTAATAACGTGGATCAGTTGTTTTGAGACTTAAA
35	324451	TGATAGTCATAATCAAAACCAAAACTAGTTAATTGATTAATAAAGTTATT
;	324501	AATGTTTTGATCTGTTCAACTGCCAGGGTTTTGATTAGAGTTAATAGCAT
;	324551	ACTGTTCAGCAGGTAAACCAAAAGCATCAAAACCAATCGGATGGAT
4 0	324601	TTAAATCCTTTAGCTTTGTAATACCTACTTATTACATCAGTGATAGTATA
	324651	AGCTCTAACATGTCCTAAATGTAATCCTGCTGCTGAGGGATAAGGGAACA
;	324701	TGTCAAGGACATAATATTTCTTTTTGTTACTATCGCTTTCAAAGCGGTTA
;	324751	ACATCTTTGTTTTTCATTTTTTTAACCACTTTTCTTCAATTAAATTGTG
4 5	324801	ATTGTACATCTAATTGCTTTGATAAGAACGCTTGATTGCATATTTAGTTA
	324851	AGCGATAGAGTATGTCAACAATAATCGCAATAATCAAACCAAATAACAAC
3	324901	CCAAAGCCAACAGGGATAAAAAAGTGAACCATTGTTTTAAATAAGACTGG
5 <i>0</i>	324951	TTGGTTTGCAACTGTGGCATTAAACCAACTGTTAATGTTGGGAAAAATCG
50	325001	TTAAAATAATCCCACTAGCATCACTGGAAGCGAGTAAATCAGCCCACTGA
	325051	GCTGTTTGGTATGTATTAAGTCAAAAACTACCAATAAAAAATAAAAAACCC

	25101 AATTACCATCAAAAAA	LIAGGAI I GCAATITI CACTAGITI TAMACABBI
	25151 GTGTCATTGTAGTTTTC	AGTAAGTTATTTCAATTATAAAGTTAGATAAAT
	25201 TTTCAATCTAACTTTTG	TAACTTTAATTTTTCAAGGATCATTTTAATAAT
	25251 AGTTACTATTGGTAGTT	TTGCATCTATAATACAGTAATTAATCCCAAAAT
	25301 CATTACAAACCGCTTCC	ATAAATCCAGTGTAAACCCTGTGTAAATTTTGA
0	25351 AAGTAAAGTTGATTTTT	AGTAAAGTTATCAATCTCTACTTTGCGGTTACG
U	25401 CATAAATAGTCTTTTTT	CAAATAATTTTCAATCCCCATCCAAAATGACAT
	25451 ATAAATTAGGAACCCCA	TGCTTATTAACTAGTTCTTTTGCTAATCTATTT
	25501 CACAGTTGGTTATAGTA	TGAAAAGACTGCAGGACGAATGATGTTGTGCTT
15	25551 AGCAAACAACCAGTCTT	CAAAGATAGAACGATCAAAAATGGTTGGATTGA
	25601 TAGTGTTGCAATTGTTC	TGGTATTTACCAAAGCGATTAAGCGTAAAATAA
	25651 AGCTGAAACAAAGGTGA	ATAGAGCAATTCATCACTACGTTCATACATCTT
20	25701 TGCTAGTAAAAGTTCAA	CCAACTGGTCATTAGTTTCCAATTCACAAACAA
20	25751 CTTTTGCAGCTTGAATG	TGGTTAGCTAATGTATTAGCAATGGTGGTTTTT
	25801 CCTAAAGCAATCATTCC	CCCGATCACAATACAATTAGCAATTTTATTTGG
	25851 TTGAAAATGGGGCTTTT	TTAGTTGCATATAAACACTTTTTAATATGTTGG
25	25901 GTTAAGGTTTATTTTTA	ATAAAAACCATCACACTCACTGACAAGTCTTA
	25951 ATGCTGCTCCATTTCTG	GCCTGACATGATTCGACTCTAATGATGTGATGG
	26001 TTCTAAATTCTAACAAT	TATTTAAATCTTAATCAATTAATTTACTAACCC
	26051 TGTTAATAGAATTGGAT	TTGGGTTGTGTAGTGCCTCTAGGCAATGAACTT
30	326101 GAATTTGATTTTTAGA	TGGTTTGATCGGTTCATTCTCTTGATCTAATTG
	26151 CTGTTGTGACGCTGGAC	TTTCTTGTTGATAATTTGTTGGCGT TGAATGA T
	326201 CAAGTTTAGTAATTTCA	GCTATCTTTTTTGTTAGTTTTGCTTTGGTTTTT
35	326251 TCAAACTGCTTAATGAA	GTTAGTAAAGCCAGTCTTTGGATTCTTAGTTTC
	326301 ATCAAAAATGGTTGCAA	TAATCTCATCAAGCTTGGTGAAATCAATTTCTA
	326351 TTTCGGTGGTGAGCTTT	TGGTGTTTTTGAAGCGAATTTACAACTAACTTA
	326401 TATGCTTTTTTTAATGC	TTGCTTTTCTTTTCAGCGGTTTTTAAAAGTGA
40	326451 TTGGGTTTCACTAATT	CCCCATCTTAAGTGCTAACTTGTCTTCAAATA
	326501 CGGTTTGGATGTGTTG	TCACGTTTATAAATTGCTTCATTACACTGCACT
45	326551 TCATATTCCTTTAACA	TTCCTCTACATTAATACTTTCATGTT CTTCAA T
	326601 TAGTTTCTTATTGGCTT	CTTTTATTGCATGTAACTGTTTATTTAATGCTI
	326651 CAATTTGGTGTTCTTT	GCTTCTACCAGCTGCTGCATTTGGATAATTTC
50	326701 CTTTCACTTTGTTTGAG	STTGTGAGAAAAGTTCGCTGTTCTGTTGAACTTC
	326751 ACGGTTAATCTCTCCT	CCAAGCGTACCTTAAGTTGTTCTTGCAAACTTA
	326801 AGATCCTTTTTAAACG	TTCTTTTTCACTTCTCGCTTCAGGACCAAACTTT
	326851 TTTAATAACAAAACAA	GCATCTGGTTCCAATCAACATTTTTTGGGTTGCT

	326901	TGTTCGTAGTTTGACATAAGCAGTTTTTGCTTGTTCTAAAAAAAA
5	326951	GCTGGGCTTTGGAAGCAAAGGGAAACTTGGCTAAAAAGAAGTTAATAGTT
	327001	TCTCTTCTTTGAAAGTCATCAAAGTCTCTATAGTAATCAAAATTATTCAT
	327051	GGAAAGCTAATTCTCTAAAGAAGCTAATGATAGCATCAGGATCATTAAAG
	327101	TCTAAATCATAATGGTGTCTAACATAAACACTAACAAAACTAAAGATTGC
10	327151	${\tt TAAAACAAAACTAGTAAAGAGGAAAAAACGGGAGTTTATTGCCATGGTTT}$
	327201	${\tt TTAACAAACAAATCTAACTTTTCATTAGCAATTTTTTTAAAACTAACT$
	327251	${\tt ATCACTAAACTGGTTAGGATCTAGTAAATAGTTGTTAAGATCACTAACTT}$
	327301	${\tt TACTTTCAACCCATTCCAAGTTAGCTTGGTTATATTGAAATTCACTTTTA}$
15	327351	${\tt ATAGTTGCAAAATCAGTTTTTTCAACCTTGTTCAAAATTGATTTGAAGCC}$
	327401	${\tt ATTTGTGTATTTTGAACAAAACTATCCATTTTACTTGTTATCAAATATT}$
	327451	${\tt ACTCCTAAGAGTTGCTCAGGTTTTAAACTGCCAAAGTAATCACTAAAATG}$
20	327501	${\tt ATCAAGTTCATTGAAGAGTTTTTCAAAGGTTTTATAATCGTACTTCTGAC}$
	327551	${\tt CAATTAGTTTTTTTTTTTTTTGTTACTGGGGTGATATCAACAACACTTAAAAAGTCC}$
	327601	${\tt CCATAAAACTTAATATCAACAACTGTTCCTTTCTCTACTTGAACATTGCA}$
	327651	$\tt CTCAAATAAACCAGCATTATTAAAATAACGCTTGTTTTTAAAGTTGTATT$
25	327701	${\tt CATAAGTTTTACCAAAGTTTCACTCCCATGATTGAAAGTGTTCTTTTGCT}$
	327751	$\tt CTTTTTTCAACCTTTGCTAGTGCATCTTTAGTTAAAACAATTGTTTCTGC$
	327801	${\tt TTTTTCAGTAACAGTGAAAAAATTAATCATCTCTTCTAAAAATTTTGCTG}$
30	327851	${\tt TTGTTCAATTTGGTAAATACTCCTTTACATTAACAACGCGCTTAGCAACA}$
30	327901	$\tt CTGTCAACACCCTTACTTGCTATCTTGGTCTTATCAACATTTAAATACTT$
	327951	${\tt TGCTAACTTAGAAAAGTCAGTGTCAAACAATAATGTTCCATGGACTAATA}$
	328001	${\tt ACCTGTCTTTAGCGATATATTCAGCTAACCCAGAAAACTTCTTGTTATTA}$
35	328051	${\tt ATCTCAAGGTCATTACGACCATGAAATACAGCAGGTACATTTAAGCTATT}$
	328101	TAAGAACTTCACCACATTTCTTGTAGTTTGTTCATAAGCATTTTCCATCA
	328151	$\tt CTTTACCTGTTCTTGGCAAAATAATAGAAAAACAGATGTTACCAAGGTCA$
4 0	328201	TGAAACACCGCTCCCCCGCCTGAAAAACGTCTAAACAAGTTAACCTTATC
40	328251	ACTTTCCAACTCCTTTAAGTTAACCTCAGCATAAGTATTTTGGTTTCTTC
	328301	${\tt CCACCACAATAGTGTTAGCGTTCTGCCAAAAGTAGATGACCTTAACTAAC$
	328351	TCATTTTTCTAAATTCAGTTAGCAATCACTCCTCTAAAGCTGCATTAAA
4 5	328401	ATACGGATTGAAAACAGGGGAAGTAATAATGAAAGTTTGCATCAACTACC
	328451	AATTAACTAAAGTAATCAAAGATCGCTTTTTTACAAACATCAGTTACCAT
	328501	${\tt TTCATTCATGGTAGGATGGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGGTGAGATAGAATTGGCAATATCAAAACACAGGGTGAGATAGAATTGGCAATATCAAAACACAGGGTGAGATAGAATTGGCAATATCAAACACAGGAGTGAGATAGAATTGGCAATATCAAAACACAGGAGTGAGATAGAATTGGCAATATCAAAACACAGGAGTGAGATAGAATTGGCAATATCAAAACACAGGAGTGAGATAGAATTGGCAATATCAAAACACAGGAGTGAGATAGAATATCAAAACACAGGAGTGAGATAGAATATCAAAACACAGGAGTGAGATAGAATATCAAAACACAGGAGTGAGATATGAAACACAGGAGTGAGATATGAAATATCAAAACACAGGAGTGAGATAGAATATCAAAACACAGGAGATAGAATATGAAATATATATATATATATATATATATATATATATATATAT$
50	328551	${\tt TGAGGTTGTTTTCCATCACCAAAGCAAGCTCAGCGATAATATCACTAGCACCAAAGCAAGC$
50	328601	$\tt GTGCTAGCAATAATACATCCACCTAAGATAGCACCAGTTTTAGGATTAAAA$
	328651	CATCATCTTGACAAACCCATTGGTTTCATGATCTGCAATTGCTTTACCAC

	328701	${\tt TATAAATAAATGGCAAGGAAGATTTGACATAATCAATCTTTTTTTT$
5	328751	${\tt AATTCCATCTCACTATAACCTACAAAAGCAACTTCAGGATTTGTGTAAAT}$
	328801	${\tt ACAAGCAGGACACTTGTTTTTTCAGCAGGCTTTACCTGGTTTTGGTTCA}$
	328851	${\tt AAATTTGATCAACAGCATATCTGCCCTGTTGGTAAGCGTAGTGTGCCAAC}$
	328901	${\tt ATCATTTGCGTGTTAACATCACCTATTAGATAGATGTTTGTAGTTGATGT}$
10	328951	${\tt TTGTAGTTTTCATTTAAAACAATTTTGTTGTTATGGTCACGTTTTAAAT}$
,,,	329001	CAAGTTGATCTAAACACTCTGTGTTAGCAATTCTTCCTATAGAAACTAAG
	329051	${\tt ATTTTATCACCAATTACAGACTGTTCAACTCCATTAACTGTGTAAAACAG}$
	329101	${\tt TTGGTTGTTTTCAGCTCTAACAACATGAGCATTGGTAATAATCTGAACTC}$
15	329151	$\tt CTTTGTTTTTAAGGTTTTACTTATCAGTTCAGAAACATCACTATCACAA$
	329201	ACCTCCAAAATCCTATCAACACCTTGGATAATGGTCACTTCACTCCCTAA
	329251	TGAAGCAAATAAAAAAGCAAACTCAACCCCAATCACACCTCCCCCAACTA
00	329301	CAACAAACTTCTTAGGTACTCCCTCTAAAGCCAAAGCTTGGGTTGAGTCA
20	329351	ATGATAAACCCAGCTTGTTGTGCTTTTTCAAACCCTGGTAAAGTTAAGTA
	329401	TCTTGGTCTTGATCCGGTTGCAACAATAATGTTGTTAGTGGTGTAAGTTG
	329451	TGTTGTTTACTTGCACCTTGTTTTTATCTATAACAGTAGCTTCACCTTCA
25	329501	ATACTTTCTACCTTAGCACCCTTAATAATTGTTTTTACCCCTGCAACTAA
	329551	TTTATCAACTACTTCCTGTTTTTGTTTTAACAGTTGTTTTCAATCAA
	329601	TAGCTTGACCATTAATAGTGATACCATAATCTTTGGCATGAACTAAATAA
20	329651	TCAATAATCTTTGCTCTTTTTAACAACGTTTTAGTTGGGATACACCCAAC
30	329701	ATTTAAACACACCCCACCAAAGTATTGCTTTTCAATCACTAGGGTTTTAA
	329751	GTTTATGTTTGCCAGCATACTCCGCAGCAATATAACCAGCAGGGCCAGCA
	329801	CCCAAAATAATTAGATCATAAATCCATAAATTAAGCTACTGTAAGATCAAT
35	329851	TAATTCCTCAATTTGTTTTGCAATCTCCTTACCAAACCTACCAACATCCG
	329901	CCCCATCAACCCAGCGGTGGTCTGCAGCTATTGTTAAAGGTAAGATGGTA
	329951	TGAACTGCAATTCCATTTTCCACTTTAACAATGCGTTCTTCTAAATTACC
	330001	AGTAGCAACAATACACATCTCAGGGTACTTAATAATAGGTGTACCTACAG
40	330051	CTGCTCCTAATGAACCGAAGTTAGTAACTGAAATAGTACCTTTATTCAAA
	330101	TCAGTCAACTTAATCTTTTTTGTTCTAGCTTTGTTAGCTAAATCAACAAT
45	330151	TGCTTGGGCAATTTCAACCACAGATTTGGTTTGGGCTTGCTT
	330201	GGACAATTAAACCTTCTTCAGTATCAACAGCAATTCCTACATTAATGTC
	330251	TCATTTAAAACAATTTCGTTTTGATCAGGATCATAACTAGCGTTAAAAAC
	330301	AGGGAACTTCTTAAGCGCATTAACAATTGCTTTAACAAAGAAAG
50	330351	AAGAAATTTTCATGGAATACTTACTTAAAGCATAACCATTAACACTTTCA
	330401	. CGATATTGTTTTAACTTGGTTGCATTAACATAAAAGTTAATACAGTGGT
	330451	TGGGATAATTGCGTGCGACTTTGTCATTGCTTCTGCAATCGCTTTACGC

	330501	TTGTTGAGATAGCAATGGTTTTCTGTTCAGTTTTACTTTCTGGTTTTTGG
5	330551	GTTGTTTCTACAGTAATGTTAGTACTACTTGCAACTTTAGTGTCTTTAAC
	330601	AGCTGGAGTTGCATGAGGTTTTACTCCAAAGATAGGAAAGAGGTTATCAG
	330651	AAACCTTAATTTCCCCTACTACTGAAGCCCCCGCTTCTTTTACCTTAGCT
	330701	ACTTCTTCAGTTGGTTGAGGTTTTGGTTCAACAAGTGGTGTACTAGTCTT
10	330751	TTCACCAATAACTGCCATCACCTGACCAATGCTAACAACATCACCAACTT
	330801	TAACATTAATAGCACTAATTGTACCTGCAAAAGGAGAAGGTAGTTCAGTT
	330851	GTAACTTTATCAGTTTCAACAACAAATAAAGCTTCATCTTGATCTG
	330901	ATCACCAACTTGTTTTAAGATTTCAGTTACTTTTCCTTCATGTAAACCCT
15	330951	CACCAACATCAGTGAATTTAAACTCATTTGCCATATCGTATTGATAGTAC
	331001	TTAAAGTTTAAATTTAATAGTAGTGATCTATAACAAATAAAAAAAA
	331051	TTTAGTTACTGGCTTTTTAGTTGTTAGACAAAATTTTGTCTTACTTTTT
20	331101	${\tt ACAGCAGCTGTTGCACTTAGCGCATTCGCACTTGCATTGGCAGCATTTCT}$
20	331151	${\tt TGTTGTCTTCCATCACTTTAATTTATGAAATGAGGTACCTAGCTCTAAAA}$
	331201	${\tt AATAAAGCTAGGTAACTATATTTTAAAAAAGTGTTATTTTAAAAGTTGAT}$
	331251	${\tt TAACTGCATCAATAACCCGTGCATTAATTTCAAACTGGTATTTTTCACCT}$
25	331301	$\tt CTAGCTAAAGGCACAACAATATCAAACCCAGTTACCCGTTGTGGGGCTTT$
	331351	${\tt TTTGAGATAAGTGAATAGTTCTTCAGTTACTGAAGTGATAATCTCTGCAC}$
	331401	${\tt TTGTAGTGAAACTTTTCACCGCTTCAGTCACTACAAGTAGTCTTCCTGTT}$
30	331451	${\tt TTCTTCACTGAGTTAAATACTGTTTGTTTATCTCAAGGGGAGATAGTACG}$
30	331501	${\tt CAAGTCAATTAACTCAATTCCCTTATCTTTCAATTCCCCGCTGTAAACTA}$
	331551	${\tt AGTTAATTAAATCAAACATTGTAGGACCATAGCTAACTATTGTAAGTTCA}$
	331601	$\tt CTACCTTCACTAATCAAGTTGGCTTCACCAATAGGGACAGTGTAATAATC$
35	331651	${\tt ACTAGGAATCTCCTGACGAAAAGCACGATAAAGCTTCTTTGGTTCAAAAA}$
	331701	${\tt AGATAACAGGATCAGGTGATTCAATAGCAGCTAGAAAAAGTCCTTTGGTA}$
	331751	${\tt TCATAAGGATTTGATGGCATCACTGTTTTAAGCCCAGCAATCTGTGCATA}$
4 0	331801	AATTGCTTCCAATGTTTCACTGTGGTGTTCCAATGCTTTAATCCCCCCAC
40	331851	CCATTGGCATCCTCACTACTAGTGGAGCGGTATATACACCACGAGAACGG
	331901	TTTCTAATCCTAGCAGCATGGACAAAGATTTGAAACATAGCTGGGAATGA
	331951	AAAGCCTGAAAACTGGATCTCTACAATAGGTTTAAGACCACCTATAGCAG
4 5	332001	CCCCAACCCCAATACCAGCCATAGAGTTTTCTGCTATAGGACAATCCCAT
	332051	ACCCTTTCACTCCCATACTTTTGTTGTAAGCCTTTAGTTGCACGGAACAC
50	332101	ACCCCCTTCAAAACCAGCGTCCTGGCCATAGAGTACAACGTTTTGATCTC
	332151	TTTCCAGTGCAAGATCCATTGCGTTGTTTAACGCTTCAATGTTATTTACT
	332201	TGGATTTTTGACATAGTTATCTTTTTTTAAATTAGTCTTTAAAGTATTTT
	332251	TTTGCAATCTGTTTCTGTTCAACTAGTTCAGGGGTTAATTCTTGATAGTT

	332301 GTAATCAAACACCTCATCTACTGATACAGGAGTATCTAGTACCATCTTTT
	332351 CATAAGCAGCTTGGATTTCCTGTTCAATTTTGCTGAACATCTCTTCTT
	332401 TGAGCTTGGTTAAGAATTGATCTATCAAACAAGAAGTTTCGCAACCGCTT
	332451 CACTGGATCACTCTTCATTCCCTCCTCCTCTTCTTGTTTGGTTCTGTAGA
	332501 TAGAAGGGTCATCTGAAGTGGTGTGAGGACCTTGCCGGTAGCTGAAGAAC
•	332551 TCAATTAAGACTGGTCCATTACCACCTCTAGCGTAATTAGCAGCATCTTG
,	332601 CATCGCTTCATAACTAGCAATTAGATCATTACCATCAACCCTTACCCTTG
	332651 GGATCCCACATGCTATTGCTTTAACGCTTAGATCACTAACAGCAGATTCA
	332701 AGTTTAGTTCTTGTTGAGATAGCAAACTGATTGTTGATAATACAAAAAAC
5	332751 AGTGTTTCACTTGTGGATGCTTGCAATGTTCATCGCTTCATAAAATTCCC
	332801 CTTCAGCTGTACCTCCATCACCAATCATAGTAACAGCAACATTAGGTTGC
	332851 TTTTTATAGTGCAACATGTAACCTAATCCAGCAGCATGGGAATACTGAGC
	332901 ACCAATGGTGATGTTAATAGGTAAAGTTTTGTATTTAGCATCTATCT
0	332951 TACCTTTTCATTACCATTTCAGTAGAGTAAAAGTTGTTCTGGTTTTACC
	333001 CCACGATACAACATTAAAGCCCCACTACGAAACGTAGGACAAACCCAATC
	333051 ATTTCATTTAAACCTAATCCCATTCCAACCTGTAAAGCTTCCTCCCCA
25	333101 AATTAGGAGCGAAGTTTAACATCTTACCAGCACGCTGTCAAACTAACATC
	333151 TTTTTGTCCATCATTCTACTCAAGTTCATTAAGTAATAAGCGTGTTTTAA
	333201 CTGTTCATCAGTTAGGGTAATTTTGTGGTTAGGATCAATTAATT
	333251 CATTATCATAAACCTGATAAAGGGTAGTTGGAACTTTATTTTTAATCAAG
30	333301 ATTGCCATATATETCTATGCTAATTTAAAACTAAGCTATTTTTTAGGAAT
	333351 GTAATAGCTAAAACCAAGTGCTTGTAAAACAGTTGCTAACACAAAGTTAA
	333401 ACGGTTTGTTAATGTGGAAGAAATAAACATCCACTAAACCCAGTTCA
35	333451 GTTAGTAACATCTGCTTTTGGATTGCAAGTGCAATATAGAAAATAATCTC
	333501 ACTGTGATTGGTATTCCAAGAAAGGAGTTGTGCTCCTAAAATTCTTAGGG
	333551 TTTTCTTGTCATATACAAGTTTAAAACGCACCTTGTCATAACTGCCCATA
	333601 AACTCAGGACGATCATTGTCATCAACAACTGATATGCCAACATCAAAACC
40	333651 TAACTTCTTAGCACGCTGTTCAGTTAATCCACATGCTGCTAAATTTAAAC
	333701 CAAAGATATGGAGTGCATTGGTGCCAACGATAGATTGGAGTTTAACTTGG
45	333751 TTACTACCAATGATATGCATCGCAGCTACTAATCCACTCTTTACTGCATT
	333801 GGTAGCAAGATCGATGTTTTCATACTGTTCACTAGCAGCATTGTAAATAG
	333851 CAGCACAACCCCCAATGACATAAACATCCTTATGATTTAGTGCTTGGAGA
	333901 AATTCATTAACTTTAATTGAACCGTTGTGAATAAACTCAAAGTTTTGATC
50	333951 TTTAGGAACAAACTTAGTGCTAGGTCTAAACCCAATTGATTG
	334001 GGTCTGCATTTACTATTCCCTTATCAGTTTCAACTCCTTTGACAACGTTG
	334051 TTTGTACTATCAACAACAAAGCCCTTAACACTGCAACCCATCATTAGTTT

5	334101	TAACCCATCTTTTTGCATCACTTTTTCAAGTTCATCAGTAAACTCATGAT
	334151	${\tt CAAAGTTATTACCAGCAGGCTTATCAAGTAAGTCAATTACTGTTACTTGCCCCCCCC$
	334201	${\tt TTTTTGCATAACCAAGCTGCTTCAGCAAGTTCCAAGCCAATGTAACCAGA}$
	334251	ACCAACAATAGCAACTGATTTAATGGTTTTATCTTTACGAAAACTATCGA
	334301	${\tt TTAAGGTAAGTGCATGTTGGTATAACTTACAGCTAATTAAGTTCTTAACA}$
10	334351	${\tt TTACCACAATATTTGTCAGTGTAGTTAAACTCCAAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACCACAAAGGCTTGTGTGTCACACAAAGGCTTGTGTGTCACCACAAAAGGCTTGTGTGTCACCACAAAAGGCTTGTGTGTACACACAAAAGGCTTGTGTGTCACCACAAAAGGCTTGTGTGTACACACAAAAGGCTTGTGTGTACACAAAAGGCTTGTGTGTACAAAAAAAA$
	334401	$\tt CTTGTTTTCAACATTCATACATATAGGTCATGCTCCTGAAGCGATTACTA$
	334451	${\tt GTTGATCAAACTGATCAGTGAACTCTTTATTTGATGTTAAATCTCTAACT}$
	334501	${\tt GTTACCTGTTTTTGATTAGATCAATGTTAGTAACATCATGACTCATAAA}$
15	334551	GATGTTAGCGCCCATCTGTTTCAACTCCTCAGGGTTGGAATAGAAAAGAT
	334601	CATCAGTGTTTTTAACAACACCACTAACAGCAAGTGCAATTCCACACCCC
	334651	${\tt AGAAACGAGATGTTTGTGTTTCTATCATAAGCGTTAACCTTAAAGTCCTT}$
20	334701	${\tt ACTTTTTGAAAGTAAAGTTCTAATAAAACTAGTACCAGCGTGATTTATTC}$
	334751	${\tt CAATCACAATCACTTTTTCATATATCTTAGCTGCAGTAATTTTTTAAGC}$
	334801	${\tt TATTTAAGGATAATTTGTGCAGTAGTGATTCGAtCTTTTAAAATTAAGCT}$
	334851	${\tt TTTGCTAGTAATGTAATAAAATCTTGCTAACCACATTTGGTTGTAACTTA}$
25	334901	GCTTTACCATTGAGTTTTTTCAGCTCAATTAAAAAGCAATATCCCACAGT
	334951	${\tt TTCACCATTTAACTGTTTAAGTAATTGGTCAATAGCAGCAACTGTTCCAG}$
	335001	${\tt CAGTGGCAAGTACATCAACAATAACACACCTTTTAGCATTATTAGCT}$
30	335051	${\tt TGGATTAATGAAGTGGTTGACATCTCCAATACAGCATGTTTTCTGTACTC}$
50	335101	${\tt CAAATCATAGCTAGCACTAATTAATTGCCCTGGGAGTTTATTGGCTTTTC}$
	335151	${\tt TAACCAATACTAACGGGAGTTGGGTTTTAGAAGCTAATGCTCCCCAAAG}$
	335201	${\tt ATAAAACCCCTCGCTTCAGGACATACTATCGCTTCTGCATTAATAGCTTT}$
35	335251	${\tt AATAAACTGTGCCATTTGGGTTAGCACAAAATTAAATAGTTGGGGATTGG}$
	335301	${\tt AAAATACTGGGGTAATGTCATAAAACAATGTACCTTGGTTGG$
	335351	${\tt TCAAAGCGCTTGATTGCTTGATCAAGCAACTTAAAGTTTTGATCCATAAA}$
40	335401	${\tt TATCTTTTTTAAAAACTGTTAATTCCTGCAATTAACTGCTCTTCAATC}$
4 0	335451	${\tt TGATCAATCTCTTTAAAAGGATGTTTTTTGTGTTTTAAGCTCAAACGGGA}$
	335501	${\tt ATGAACATAGTTGAAAGGACTGAGTCAACCATTGATTAAACCAAAGCAAA}$
	335551	${\tt ACATTGGTAAAAAGCAGTTGCAACATCAAATAAACCAACAATAGCAATT}$
4 5	335601	${\tt AGATAAAAGATCACAAGGTTAAAGTTGCCATCAATCCCACCAAAGTTAAA}$
	335651	${\tt ACCACTGTAGATAAAAAATGAAAACTAAGCTAGAACTTTCAATCAGAT}$
	335701	$\tt CTATCTTCCACTGCGAGTTGAAGTTATCGTTAAATAAGTTTTTGATAAAT$
	335751	${\tt ACCTTGTCCTTTAAGCTCCTTTTAAACCAGTAAAAGTAAGT$
50	335801	${\tt TGTTTGTGATACCTTAGCTGCAAAAAAGAGCCAAAACAGATAAACAAAGG}$
	335851	${\tt TAATTAACTGGATTGTTGATTGGTCTATACTAAACAGATAGTTAGT$

	335901 TACATCACTGCAAACAAACCACTACATAACAAGATAAAGCTAACCAAATA
	335951 ACTTAAACAATAAGCAACACCATATCTAATCAAACAATAAGCTAAGTACA
	336001 GTAAACTAACTATTCCTATCCCAGCAATAATCCCGTTACTTGATTCAACA
	336051 TCTGCTGCTAAAAATTCTCCTAACAGGTTAGGTTGAACAAGATATAAAAC
	336101 TAGCATTACAACTCCTATAGCTAACAAGATTAGCCATACAAACAA
0	336151 TCCAGTTGTTTTCAAAAAGAAATCATGTTGGTTTTTGGTTATAAAAAAG
	336201 TCTGTGTTCAAGTCACTAGTTGAACTTAAAAGTGAATAGTTACTAGAAGT
	336251 TTTAGTTAGTGCTTTTGCATCCTTCTGATAGAGAAAAAGCTTTCAGTTTG
	336301 CACCTGATTCTGAACTGACAAACAGTGAGATTAAAACGATGCTGATTCCA
5	336351 TAACTAAAAAGTAAGAAGTAATGGCTGATATTGCCATCAAATTAGCTAG
	336401 TTGTTGGACCTGATAATTAGAAAGATAGATAACAACTAAAGCACTAATTA
	336451 ACCAGGTAATGTGAAACTCAAGATTAGCAAAAAAGCTTCTTTTTAAACAC
20	336501 AGTTTTCACGATTCGATAATAGAAGCATTATTTCTAATATTTCTTAAGAA
•	336551 TAACTCTCCTAAATTCAAGAGATTAATTAGGTTGATGGCAATAACAAAGA
	336601 AGATGCCCACAAAAGAAAAGACATCAACAACTCCACCAACTGCACTAAAG
	336651 ATAACCAGTGATGACACCACACTTAACCCTAAAGCTAATGCTTTGTATAA
25	336701 CCCTAAGAGCTTGTATCGTAGTGTTAATAGAACAGCAGCAATAAGAACGA
	336751 TGATACCAAACGCAATAAAACTAGAAGCAAAATTAGAAACATCTGTGATG
	336801 GTATTTGCAAGTGGAGCGTTAACCAGACTTGTTTTTGCAGTTGCAATGGT
3 <i>0</i>	336851 AGCTGCTGTGGGAAATGGATTTGTTAAAAGCTCTTTAACAGTAGCTGCTG
	336901 TTACAAAGTTTGGTGGGGTGTATGTACCATCACTACTCAAGAAATTACCA
	336951 ACTTGAAACTTAATATTACCACCATATTCTATCCGTTGGTTG
	337001 TAAAAAGCTTTGTAGAGTAGGATTAATCTTAACAGGATCACCGGTTTTGC
35	337051 TAACCGGATCTTCAGTTCTAATTTCACTGATAATATAGTTATGGAATAAC
	337101 CCTGAAAAACCACTGCTATCTGCACTCCTTAACTTTCTTGTATCAGCACT
	337151 ATTTGAAACTGTAATTACATCTGAACTATTGTTGTTATTGTTATTCT
40	337201 GGTTATTATTGTCATTACTGTTGCTAGCAACCGCTGAAAAGTGGTTAGGA
40	337251 GCAGCGTAGATATAATAAAGGTTTTTGAGAGTAATGTCACTTGCTTTTTT
	337301 AATAGGAGATGCCCCATTAGCATCAGTGTTTAAAAACAGATTATCACCAC
	337351 TAGCAAAGCTACCCTTTGCATGTAAAAATTCCCAGAGACTCTTCTCTCTT
4 5	337401 TCATTAAAGGTGAGATAATCACTACTACCCTCAACTACATTAAAGATATT
	337451 ACGGACATAGTTTAATGCGCCTTGTTTATCTTTTCACAATACTAAAGTTT
50	337501 TATTACCACTACTTGAAGTTCCATTCGCATTTTGCTTAAAAAATTTACCA
	337551 TTGCCCTCAACACTAGCTTGCCCATTACCAGTATTATAATCAGAACTTGA
	337601 TAAGTTTTTAGAGTTGATAAAATCAAGAAAATCGGTGTGTAAACTTTCTT
	337651 TGGTAACTACATTTTTATTTAACTTGTATTCAAAGGTTAAAGCACTGTTT

	337701	${\tt ACAGAAGTGTTTTGGGGAACAACTGCCCTAATGGAAGCATTAATAAAATT}$
5	337751	${\tt ATTATCCAGTGAATCAAATAAAACCACTCCATCAGTTGTTTCAAGTGAAA}$
	337801	${\tt GTTGGTAGTTGTACTGAACTGAACTAATTGCATTTCTTCTAACCTGAGCA}$
	337851	${\tt TCAACTTGTCTTTTGTCGGGGGTTTTGGCTCACGGTTTTGTTC}$
	337901	${\tt AAAGGTGAGAGTAACAGAAGGTAATCCCCCATTAACCAATCAGGACTTGT}$
10	337951	${\tt CAATGTTGTCAAGTTCACTAGCAGTTTTATCATTAGTGTTTTTAGTAATG}$
	338001	${\tt TTTACAGAAGAAAAGCCCTGAATGAATAAACTGTTAGCATAACTTTTTCCC}$
	338051	${\tt AACACCATCTAAAAAGCTATCAATGTTAGTGATGTTTTCAATCCCGTTGG}$
	338101	${\tt TTGGTTTTGTTGCTGAGGATCTAATGAGGTATTGTTAGTTGACTTATGG}$
15	338151	${\tt TTTAAAAAGTAAACAGTTGTAGTGGTAGAACCGTTGAAAACAGCACCTAA}$
	338201	$\tt CCTGCTGTCATTTAACAGTTTGTAACTCCCAAAAATAACACCAAACAAA$
	338251	$\tt CCAGACAAACAAGTCCAAGAATAGTTCCTATTTTAGGATTCAGTCCAAA$
20	338301	${\tt GAAAAGCGCTTTTTGAACCTCACTAACTATTTTAATAACTTAAATTTTA}$
	338351	${\tt TATAAATATTAAGTAATGGCAACCATTCAGGAAATCGAGTGTGATTTTTT}$
	338401	${\tt AGCTAAAATAGCACAAAAATTTACTAATGCAGAGATTGAATTAATT$
	338451	${\tt AAGCATTCTATCACGCTAAAACTTGGCATGAAAACCAGAAACGGCTTAGC}$
25	338501	${\tt GGTGAACCTTTTTTTTTCCATCCTTTAAGAACGGCATTATCACTAGTTGA}$
	338551	${\tt ATGGAACATGGATCCTATCACTATTTGTGCTGGTTTGTTACATGACATCA}$
	338601	${\tt TTGAAGATACAGACCAAACCGAAGCTAATATAGCAATGATTTTTAGCAAA}$
<i>30</i>	338651	${\tt GAAATTGCTGAGCTTGTCACTAAGGTTACAAAGATTACCAATGAATCTAA}$
50	338701	${\tt AAAGCAACGTCATCTCAAAAATAAAAAGGAGAATCTTAACTTAAAAAAGCT}$
	338751	${\tt TTGTTAACATTGCAATCAATTCTCAACAAGAGATAAATGTAATGGTACTA}$
	338801	${\tt AAACTAGCAGATCGACTTGATAACATCGCTTCCATTGAGTTTCTCCCCAT}$
35	338851	${\tt TGAAAAGCAAAAGGTAATTGCAAAAGAAACTTTAGAACTTTATGCAAAGA}$
	338901	${\tt TTGCTGGGAGGATTGGGATGTATCCTGTTAAAACAAAATTAGCAGATCTT}$
	338951	${\tt TCATTTAAGGTGTTGGATTTAAAAAACTATGATAACACCCTGTCAAAGAT}$
4 0	339001	${\tt TAACAAGCAAAAGGTCTTTTATGACAATGAGTGGGATAACTTCAAACAAC}$
- 0	339051	${\tt AATTAAAAAAATCTTAGCGCAAAATCAGATAGAATACCAACTTGAAAGT}$
	339101	${\tt CGGATTAAAGGCATTTACTCTACATATAAAAAACTAACTGTTCATGAACA}$
	339151	${\tt GAACATCAGTAAGATCCATGATCTTTTTGCTATCCGCTTAATTACTAAAT}$
4 5	339201	${\tt CAGAACTTGATTGTTATCACATCCTTGGTTTAATTCACCTTAATTTTTTA}$
	339251	${\tt ATTGACAGTAAATACTTCAAAGACTATATTGCCTCACCTAAACAAAACCT}$
	339301	${\tt TTACCAATCAATTCATACCACTGTTCGTTTAAAAGGGTTAAATGTTGAGA}$
50	339351	${\tt TCCAAATTAGAACCCAACAGATGGACAATGTTAGTAAGTTTGGCTTAGCT}$
50	339401	${\tt AGTCACTGGATCTACAAAGAACAGAAAGAGGGGATTGTTAGCACCTGCTTT}$
	339451	${\tt GCAACTTAATTACCTAGTGACAAAAACAAAAACACTCACATGATTTTCTAA}$

5	339301	AAAGGATTTTTGGGACTGATATTATTGATATGTTAGTGCTAGTCAT
	339551	GAACCTAATGTAATTAAGCAAATTAATGTTGATAGCAACAATAAACTCCT
	339601	TGATATTGCTTTTGAAAACTATCCCAAGCAATTTGCTAAATTAACCAAAA
	339651	${\tt TTGAAATTGATGGGGTTGAGATCAATTCTTTTGATACTAGTGTTGAAAATTGATGAAAATTGATGATGATGAAAAATTGATGA$
	339701	${\tt GAGATGCTGATTGAATTTTACTTTGGCAAGAATAACAATTTGAAATCAAA}$
10	339751	GTGAATTAGGTATATGAATAACCCTATATACCGTGAAAAAGGTAAAAAAAGA
	339801	${\tt GCTTGGCTAAACTAGCTAAATCTGGTAGATACAGTGAGTTAGCTTTTTAT}$
	339851	GAAAAAGAACTGGGTGAAAAACAGTTAAAACTTGCTAGTGAAACTGAAAT
	339901	CCAAAAACGCTTAAACACCCTAAGAATTAAAAAAATGAGTGATTACTTAG
15	339951	$\tt CGTTAATTGAGTGTACTAACTTTACTAATGATGAACATTTGTTGTTTCTA$
	340001	GCTAAAAACAACGACAAGTGAAATAAACTAACAAAACCACTTAAGTTTGC
	340051	${\tt TTTTTCAAAAGTAGTTTTTCACAACTCTTACTTTGAACAAATTGAAGGTA}$
20	340101	${\tt TTTTTATCACCAAAATAGTGATTGAACCATGTTGTAGTAAGATCCCTGATGATGATGATGATGATGATGATGATGATGATGATGAT$
20	340151	${\tt ATGCCTGAACAAGTAACTGGTATCTTAACTAAAAACATTTTAAGTGTTCA}$
	340201	CCGTTATGGTTGTAAGAATTTACAAAATAAAAAGCAGTTAAAAATTATCC
	340251	${\tt CGTTATATTGAAATATCCAGCAGTTAAAACTAAAACCACGTAAGTTTCGC}$
25	340301	AGTTACATTAACGGAGTGTGGAGTGAAAAAACCATTAATAAAAT
	340351	$\tt CTGTCAAACAATTATTAATGGTGATGGTTATATTGAAAAAAATAATTCCCA$
	340401	${\tt AGATCAACAAACAAAAAGATGAATTTGATTTAAACATCACCCTTTTTGTT}$
30	340451	AATAACTACCAACAACTTCTCACCTTAATGGACCAAATTACCACTAAGAA
	340501	TATCAGCTTTAGTTGAAAATACCTTTAGTTACCAAACACCGCATCATACA
	340551	$\tt CTTCTTCATCTCTTAAAAGTAAAACTAAGTGCTTTTTTAGTAGCCGTTGTTTTTTTT$
	340601	GGATTGAAACGTGATACTCTCACTCCATAAACTTTCTTTGTAAATAAA
35	340651	TAATAAAAAACCAGAAACAAAAAATGCCCCAATAATTGAGATTCCTGTAT
	340701	${\tt AGAAAAGGATTTGGGAAACTTCAGTTAAATACCGCTTAAAATCATCATTT}$
	340751	${\tt TGGTTTGGATTTGGGAACTTTTCTAGCATTTGATCAACAAAGCTAGTTAT}$
4 0	340801	${\tt GTTATTTAATGTGTGTTTAATTTGGGTAAAAGCAGCATTACTATCAAAGT}$
40	340851	TATTAATTTTTTCAATGAACCTTCAAGTGCATTTAAAGAACTATCTAAT
	340901	${\tt CCTGATGCAAATGAATTGTTTTGCGTTAATTTTCGCCCTTCGTTTAAAGA}$
	340951	$\tt TTTTTCAACTTCTGAAAGTGTTTTTAACTAGGTTATTTTGGAAGATATTTT$
45	341001	${\tt GGGAGATCTTTTAATTTCAGTGTTATATTCACTAATCTTGTTATATCCCC}$
	341051	${\tt TCTTTATAGTAGTTGTTAATAGGTTCACGGTAAGTAAAAGCAAAATAACC}$
	341101	AGCAGTAGCAATTCCACCTAACAATAAAATCCCTACCAAAATAATAAGAA
F0	341151	AAACTGCAAGTTTTTTTAATAGTCTAATCATGGTCTAATGCTGTTATCAC
50	341201	TTCCTCTTCCAAATCAGGATAACGATCTAAGATATCATTAACATGATCAG
	341251	CTAACTGTTCAGTACTAATAAATCTTGAAAACCTGATCAATCCTCTTTTT

	341301	$\verb TTAGAAGTTAAAAAGGAAAAGACAATGGTTGTAATCAAAATTGCTAACAT $
-	341351	${\tt CCCACCTGATACAGCAACAATGGTTATCATTGTGACATCATAATAATTAT}$
>	341401	${\tt TGAACTGTTCAGAAGAAGGGATGTTGTTTTTGATCTTTTCATAGCTACTA}$
	341451	${\tt ACAATGCTTTGTGCTTGTGTAGAAAACTCACTAACTGCACTAATTACACC}$
	341501	${\tt ATCAGCTGTTGTTTTTTTACAGATGGAGATGAACTAGCAGTACCAT}$
10	341551	${\tt TTTTATCAAGATTATTTTAAAGTTGTCTAATTGTGTTTTACTGTTTTCC}$
	341601	${\tt AAGTCTTTTTGGTTGCATCAAGTTCCCTAATCTTTTCTTGACTAATATT}$
	341651	${\tt ACCTAGATTGTTCTGACTCTCTAAGTTCTTTTTGTATTCATCCACTTTTT}$
	341701	${\tt GTAAAGATTGCTCTAAGTCTTTTTTAACTTGATCTAAATTGTTAGTAATG}$
15	341751	${\tt GAACTTTTGCTAAATTGGTTAGCACTATTTGCTAAAGCATTAGCAAAGGC}$
	341801	${\tt TTTAGCAGAATTGAAAGAACTATCAATGGAATTACGAGCTTGAACATAAA}$
	341851	${\tt GGTTAGCTGCTGTACTACGAAAATACAAAGCAGTAATACCAAACCCTAAC}$
20	341901	${\tt AGAAATACAAAAACCAACATTCCAAAGAAAAGCAAGATGGTTTTCGAAAA}$
	341951	${\tt CCGATTAATAAAAATAACCATTTAAATACTTGTACTTTTAACCAAACTAA}$
	342001	${\tt TGGTTATAAAAGTGTTTTGAAAACAAAACTACTAGAGTTTAAGTTTAACA}$
	342051	$\tt CCCAATGCGTTGGTTTTAAGTTCTTTTGCTAGTGATTTAACTTCATTTGT$
25	342101	${\tt ATCACTGGAAACACCAGTAATATCAACTGTTTCAAACTTTTCTTCACCAA}$
	342151	${\tt TTACAGTAACCAACCCTTCAACTGCTTTAGTCATTCTTTCAAGACTACTA}$
	342201	${\tt TCTGTATCATTTTCTAGTTTTTGGAACTGTACACTGTATTTACCACTAGC}$
30	342251	${\tt AGTAATTCTTTTGATGTTTTCATCAAATGTTACTCCgTTTTGTTCAGCAC}$
	342301	${\tt GTTTTAAGATTTCATTTTGAAACTCGCTGTCTCTGCTTGCGCGTTCATTT}$
	342351	${\tt TCATAGATGCTAGCACCAGGGTAATAGTTTTCATTAACCCTGTAATAGGT}$
	342401	${\tt GTTATCTCCTTCTGTAAGCTTCTTCTAAGTGGAGGTTAAGTTCTTTTA}$
35	342451	${\tt AAGAACGGTACACCAAATCATCATCACTATCCTTGTTGGTATTAACATTC}$
	342501	${\tt TTAACTAAGTACTTGTCAATGTATCCCCCAGCAAAATAACCTTGGAACTG}$
	342551	${\tt TCTTTCAAACCTTCTGTAGTTGTAAATATCACCAACTGCTTGTTTGAGCT}$
4 0	342601	TATTAGCATCAATGGCTGAATTATCACTGTTTTGGAGTGTAACTTGGGTT
	342651	${\tt AAATCAATGTGGGTAAATGGTTTTGAGGCAAACAGATCATAGATAACATT}$
	342701	${\tt AGTTTTACTTCCCAATACTAATGGGTTAAAACCAAAACTATTTGCTTTAC}$
	342751	${\tt TGGTGGAATAAAATTCCAACTCAACTACGTTTGCAAAGATTTGTTTAGCT}$
45	342801	${\tt ACATTAACACCAGTGTAATCACCATAAAGTGAAACTTTTTTAACTGATTC}$
	342851	${\tt TGGTAATTGCAATTCATTAAGTTGTGAACCATTACCACTTAAACCTCTAA}$
	342901	${\tt TAATTAGGTAAGTAGGTTTTTCTGAATCTATTGTTGTTTTTAAAGCACTG}$
50	342951	${\tt ATATCTTTAGCATCAATTGCGAGTGTTTTAACATCTTCAAAGAAGTGGTT}$
	343001	$\tt TGGGTATGAGTCATAAAGTGGTGAACCTTTAGCAGCAAAATAAGTTCACT$
	343051	${\tt TATCATAAGTAAGGTTATTACTAGTTGAAACAGTTGTTGCTTTTGTGTTA}$

	343101	$\tt CTCCATCCGCTGAAACTAGGAACTTGTCTAAACACATCATCATAACCACG$
	343151	${\tt GTTGTTTGCCATGAGAGTACCGTTAGTTGTTTGCAAGATTGGCATCAACA}$
	343201	${\tt CGCGGTTATTGAAATATTCAGTTGATTGGTAATAGCTAAGCAGTGAACCA}$
	343251	${\tt TCACTAGCAACATGATCATAATAACCAGCTTTAAAACTAGGAGTAATAAA}$
	343301	${\tt GTTATCACCTGTTTTAATTAAGCCACTAATTTCAGTTTTAGGAACAGGAC}$
0	343351	${\tt GGTCTAAACCCTTTGGACTGTTAGTGATCGCTTCTGATAACTCATTAGCA}$
·	343401	${\tt AAGTTTCTAAATTTCTCACGGAAGTTAGCACCACCAGATAAATCAATC$
	343451	${\tt ACTCTGATAGCTACCATCGTTTAAAGAAAGTGATTTCAACTTTACTTCTG}$
	343501	${\tt CACTAGGAGATTGTGTTGAGAACAACTTAAAACCGAGGTTACCACTCCTA}$
5	343551	${\tt CCTGATGCAACCAAAGCATAACCACTTTGATTAACTAGGTTAGTGATCAT}$
	343601	${\tt AACTGCTGAGAATGTGGTTAACGCTCCAGCACCTAAAACACCAATAGTCC}$
	343651	${\tt AAAATAATTTACGCTTAAATTTCACACTATTTTTATGTTTTTAAATTGC}$
20	343701	${\tt ATTATTTTTGTATTATTAGAAACTTTTAATTTGTAAACAGTAGTCTACT}$
20	343751	TATCAATTTAAATTAAATCCACTAGTAAACTTCAATAACCCTTTCTCTG
	343801	AAAGAGCTTGGTAATTTATTAAACAAATAAAAAACACCCTTAAATTGCTT
	343851	TAAGGATGTAATGAGTTTAAATCTTTAATTTTTGGAGCGAGTAATCGGAA
25	343901	TCGAACCGACACGATCAGCTTGGAAGGCTGATGTTCTACCATTAAACTAT
	343951	ACTCGCACAAATTTGGTGCCCAAAGCCGGACTTGAACCGGCACACCATTA
	344001	CTGGCGTGGGATCTTAAATCCCATGCGTCTACCATTCCGCCACTTGGGCT
	344051	GGTGACCCACCCGAGGATCGAACTCGGGACCCTTTGATTAAAAGTCAAAT
30	344101	GCTCTACCGCTGAGCTAGTGAGTCTTTTTGATAGGGAGTTAACCCTATCT
	344151	TTAGAAATTTAAGCTTTAACTGGCTGGGATGGATGGGATCGAACCATCGC
	344201	ATGATAGAGTCAAAGTCTATTGCCTTACCGCTTGGCTACATCCCAAAAAT
35	344251	GGTGGACAGGGAGAGTTCGAACTCCCGAAACCATAAAGGTGTCTGATCT
	344301	ACAGTCAGAAGCGTTTAGCCACTTCGCTACCTGTCCATTACTACCAGCAA
	344351	GATATTTTACAAATTATCTGTTGCTGATCTTCAGGATTTTAACACGATAG
40	344401	GGAACTTCAATACCAACAACATCACATTCATCACCAATTAAACGCCCATA
40	344451	GATTGCAAGGGCAAGGGGTGATTCATTGGAAATTTTGTGTTCTTCAGGAT
	344501	TTGCTTCAAGTGTACCTACAATTGTGTATTTTCGTTCGATTTAGAACTG
	344551	TAATCATAGATCTCAACAGTGCTCCCTAAGCTAACTTTTGTTACTTTGGT
4 5	344601	TTTTGCTTGGTGGTCACTAATTAACTTAGCGTTGGCTAATATATCTTGAA
	344651	TTTCAGCAATCCTAGTTTCAATCTCACCTTGCTGTGCTTTAGCTGCATCA
	344701	TAATCAGCATTTTCACTTAAATCACCCTGATCACGTGCTTCTTGTAAGAG
	344751	TCTGATAATCTCAGGACGTTTAACTTGGATTAGGTTTTCAAGTTCTTTTT
50	344801	CCAGTTGCTTAAATCCTTCTTGAGTTAGGTAATTTTTATTTA
	344851	ACAAAATTAAAAGCAGCAAAAACACTTTTATTATTTAATTATTTCCCCTT

5	344901	${\tt TTTTTGCCAATTTTTGCTAAAAAAAATAGAAAATCAGTATTGCAGTAATAT}$
	344951	${\tt AGATATTAAATAGTAAATTTCTATTTAACTTCGAAATAAAT$
	345001	${\tt TCAACAGAAGATTGTGAGTTTTAATACAGATGAGAGAAAACAATAGTAAT}$
	345051	${\tt GCTCAAAACAAAAAGAAGATCCGCTTTTTAGCTTTGGGCATCATTATTCT}$
	345101	${\tt AATCGTACTAATTGCTTTAATTACTATGCTTTTTATCACTGGAGTAATTA}$
10	345151	${\tt GTCGCAACCGTTAAGATTACTTTTTGCTAGATGACAAAAAAAA$
	345201	${\tt TCTCACTAGTTGGTATGACCAACTGCTAGTTAAAGCAAAGTTAATTTGTC}$
	345251	${\tt ATGGTGAAGTTAAAGGTACAGTTTGTTTTTAAATAACAGTTGAGGCTTA}$
	345301	${\tt TGGATGGAAATCCAACAGCTTTACAATGATGCAATTGCAAATAAAAATCA}$
15	345351	${\tt ATTGTCTGCAATTGCTCTAACTAAATTCCAACCAACTACTAGTTTTTGTT}$
	345401	${\tt ATCAAGTATTCCAAGTACAACTCCCTACCCTTTCTTTTTACAGTGAATAT}$
	345451	${\tt CAAAAGGAAAAAACCCATATCAAAGGTTTTAATCCTGAGCTTTTTTAAT}$
20	345501	${\tt TAATCAAGTTGGTCAAAAACAACTCAATGATCCTTTGGTTTTACGACCTA}$
	345551	${\tt CTAGTGAGATTGCTTTTTGCAACTTATGGAAAAACAAGAGTTATCTTAC}$
	345601	${\tt CATGATCTACCTTTAATTTATAACCAGTGAACTCAGGTTTTTCGTGCAGA}$
	345651	${\tt AAAAAACACCAGACCTTTTTTGAGAAACAGTGAGTTTTACTGACAAGAAA}$
25	345701	$\tt CTCATGGGCTTTTTGTGGATCAGAGCCAATCTGAACAAGCTGCTATTAGC$
	345751	${\tt TTTTGAAATTTATATCAGGATTTAATTATTAACAAACTTTGTATCCCTGC}$
	345801	${\tt TTTTGTTGGTTTGAAAAGTGAAAGTGAAAAATTTGCAGGTGCTAAAAACA}$
30	345851	${\tt CATGGACAATAGAAGCAATTATGCCTGATGGACAAAGTTTACAATGTGCC}$
	345901	${\tt ACTAGCCATGATTTAGGTGACACTTTTACAAAGAGTTTTACTATCAGCTA}$
	345951	${\tt TCAGAGTAAAACTAACCAAAAAATGACTCCAAGTAGTTTTAGTTGTGGGA}$
	346001	${\tt TGTCAACTAGGATCTTAGGAGCAATTTTTTTAACCCACAGCGATGATTAT}$
35	346051	${\tt GGTTTGGTTTTACCTTGGTATCTAGCAAGTAAACAAGTCAAGTTATACCT}$
	346101	${\tt GTTTGATAAAACAATAACCCTAAAACAAGAGCTTTAGCTTTTTTAGTGA}$
	346151	${\tt AGGATTTTTAGAAAAACTCAAAATTCGCTTTAGTTTTATAGAAATTAAC}$
4 0	346201	${\tt AATCAACTAGGTAAACAACTTTTAAAAGGAGAAATAGAAGGTATTCCATT}$
	346251	ACAGATGATTGATAATGAAAAAACTATTAACATCTTCAACCGCTTAA
	346301	${\tt CACGTTTAAAAACCAGCTTAACATTTGCAAATCTCCAAACTGAATTTGTT}$
	346351	${\tt AATTTAGTTAACAACTACCATACAGAGATGTATAGAAAAGCAAATGATTT}$
4 5	346401	${\tt AGTTGAACAAAACTAGCAAGGAGTACAAACTTTAAAGGAAATTGAACAAG}$
	346451	CATTCAAAAATAAAAAGGCTGTTTTATGTACCGTGAAGTTAACTGGTGAA
	346501	$\tt CTTGAACAACACTTAAAGACAAAATACCAAGTTAGTGTTAGGTGTTTT$
50	346551	${\tt TAAAAAGTCAGATGTAACACAAAACTGTCCTTTTACAAATCAACCTTGTT}$
	346601	${\tt TTGATTCAGTTTTAATTGCACGTGCTTACTAACAAAGTACTGTCAATCAC}$
	346651	${\tt TACCCAATAAAACCCTTGATTATTTGGTTTTATTTAATTTATTT$

	346701	ATTTTTTACCAGTAATTTTTGTTTAAAAACAAACTCGTTTTGTAAAAGAA
		AAAAGTTAGAGTTGTTGTATTTCAATAACGATTATTTAGCCTCTAAAATC
5		GATTAGACGATCTTCTGATCGTTTAAGATTTATTCAAATTCAACATGACT
	346851	TTATGACTTTTACAAACAAAGAAAAAAATTGCAAACAAAGCAAATCATTA
	346901	GCAGCGTTGATGACAAAATTTAAGCGCTCGCAATTAATCTTGAAACACCA
10	346951	AGCTAATAACATAGCACTGGAGTTGTGAAATGAAAATGATATTAACCTAT
10	347001	CAAAACAGCTTATTGAGTTAATAGAAGATACTTTTTCAATGCTTAAAAAA
	347051	GAAACTGTTGATTTATCTATGACATCTATATTTATGGCAAAAAGCCGTG
	347101	TGATATTGGTTATTCTAATTCCACCTATTACAAAAAACTAAACAAAGCAG
15	347151	CTAATAGTTTTTTTGACCATTTTGTTTGAGATTCGTCAATATTAGACAAA
	347201	AGGATCATAACTAATGGCAGCAATTCTCAACGTACAACGAATTCAAAATA
	347251	ACCAAGTCACTGAGTACACAATGAGTCCAGTGCGTAATTTTGCAAACACA
20	347301	AAAGATGTATATTTTGATGCGCAATTAACAAATATAGAAAGCAAAATTGA
20	347351	TAGTAGTAGGGCTCAAATTCACCTTACTATTGCACTAAAATACAACACTA
	347401	ATCTCCCTGATAATATCTTTCAAGCCCACTTCAGTTTAGGCAATTGACAA
	347451	AGTGATAAGATTCAACTTCAAAAAGCTCCTGATAAAAAACACGATAGTTT
25	347501	AAACAGCATTAAATATTTTTATGCATTTCTAGATGTACCCCGTTCAGCAC
	347551	TAGCAAAAAAGAAATTAATAGGTTTAGTAATGTGGTTGCTAGAGTATTG
	347601	${\tt AGAATAAGTTTTCGCTTGCAAGATCAATCTGAAAAAGGGAATTGAAGTGAAGTGAAGTGAAGAGAGAG$
20	347651	CTATCATTTGTTTGATACTGTAGCTAGTGAATTGTATGCAACAGTAATTA
30		AAGAAACAATCAACTTTGGCAACATGATTAAGATTAATGCACTTGATGGT
		AGTAAACAGCTAACTAGTAGCCAAGGAAGTTTTAAATACAGTTGAACAAT
		GTATGACTATAGGAATTTAGAACAACTTGATGAGGTGAGAAACTTGATCA
35		ATATCAGTTTTGACAAACCAGTTCAAATAGTAAATGTTGATGTCAAAATT
		CACTATGTTCCAACTAAAGGTAGGTTACAAGAGATAAAACAACAAGGTGA
		GTTTGAAAATAACCTTGATGTTAATGAAAAGCTTAAACTCAATTTAATAG
40		GCAATTGAAATTTTGACAAACATAACAAGAAGCTAATCAGTGATATTTCA
40		GGTACTGGAATCTTTTTACCCCAGGGTGGTTATGGAAGTTATGAAATAAT
		GATTGGCGCTACAGTAGGTAATGATTTCTACACAATTATAGCCAACAACC
		AGTTTAAGTACGAAACACCTTTAGATGATCTTGAACAAAATGACTTTTTT
45		GAGGTAAATTATTTACCTGTTTACAGTACATACAACTTTAGTGATTTAAC
		TCAGTAAGTATGATTTTTCAATTAGTAAACGAAAGTTAATTTGCGGAT
		TTTGCTAGTTATTTTAACAATAGGTGGGGTTTTTGGGTGGTGTTTATTTA
50		TTACTAAAAACAACAAGGATAACTACCAAAATGAAAGTAATTTCAACAAT
50		CAAGAACAAATTAGTAAAATCCCTAATTTCAAAGCTATTGGTCCTGAAAC
	348451	ACAACGTATCTTAAGAGAAAGAAACTATCCTTTAGATGATAGTGGTTAT

5	348501	${\tt ATGTTTATAAGTATGGTGAAATTAATAGGTATCTAAGAAATGAAAGTGAA}$
	348551	$\tt CTAGATGAATTAACTATAGAGTGATGGTACCTTCACTTAAATTACA$
	348601	${\tt TCACAAAAGGGTTAATTTTGATAAGGCATTTCTTGAAAGTAAATTAAGAA}$
	348651	${\tt AATGGATTATCAAAGCAATTAAGCAACATAACTATTTCCAACACTTTGAA}$
	348701	${\tt AATGAACCAAATTTAAGAGTTCAATATAACATGAATATTCCAGCACAAAA}$
10	348751	${\tt AATTGATGTTAATGCTGTTTGATCTTATAAAAAAGATAATGATGCTGCTA}$
	348801	$\tt CTGGTAAGCCAATCCGATATTGAGATCAATTTGAGCTTAAACTTAAATAA$
	348851	${\tt TAAATCTTTATAATTTTACTAGATTTACTAATGCAAACGCATGAAATTC}$
	348901	${\tt TTTTAAAAATTAAAGAAATTGCTAAATCAAAAAACTTTAATCTTAATTTA}$
15	348951	${\tt GATGAAAAGACAATAAATCAACCACTTCGTGAGTTGAAAATCGATTCACT}$
	349001	${\tt TGATATGTTTAGTTTAGTCTAGAAAATGAATTTGGGATTAGTT}$
	349051	${\tt TTGATGATGAAAAGTTAATGAATCTAAAAAATCTTGCTGACTTGGTTTTA}$
20	349101	${\tt GAAGTTAAAAACCTTTTAGCAAAAAAAAGGGGTATAGTTCAAAGGTAGAAC}$
	349151	${\tt ATCTGTCTTCAAAATAGAGTGTTGTGGGTTCGAGTCCTGCTACCCCTGCC}$
	349201	${\tt ATAAAATATAAAAGCTTAGTAAGTTTTTACTAAGCTTTTTTCAATCCCCC}$
	349251	${\tt CATTCCCCCAACCTCTATTTTGTGTTACTAGTGCCTAAGGTGGTATTGGA}$
25	349301	${\tt GTATCACAACCTGAATAACCAAGTAGTCAAAGAGAGTTTGGAAGTGGAAG}$
	349351	${\tt CAACTGATTCTTTTGATCCCACCCAAAGGTTGCAAAAAGATAGTCCAATG}$
	349401	${\tt AAGGATACAGGAAAGATGGGGGGAGAAACTCCAAGAGACCATGTCATCAAT}$
30	349451	${\tt GAGTGGTGGGGCTACATCTCCTCGCAAAGCCCTCACCATTGAGGTGG}$
30	349501	${\tt AAAGGGGGAGTCAAAGTGATTCACTTTTAAAAAACGACTTTGCCAAAAAG}$
	349551	${\tt CCACTGAAACATAAGAACAGTAGTGGGGGGGGGGGGGGG$
	349601	${\tt GGAGTTTACTGAGGCCTGAAAACCATTGTTGACTACTGATCAAATAGCAA}$
35	349651	${\tt GAGAGAAGGGGATGGGGGGGGGACTTAGACTTTCTCCCCTGAATCGGCAACA}$
	349701	${\tt ACAAACCCTTCTCCAACTCCCACACTGCTTCCCTTTCTTCTTCTTCT}$
•	349751	$\verb tccccacttccccacttttctaacatcaatgtcggggttaaatcaatgat $
40	349801	${\tt CACTCATCTCAACAAGAAAACACCCGGTGGGTGTTTACCCCTAACTCTT}$
40	349851	${\tt CACCAGACATTTGAACGGGAGCAGGTTATAGAAAAGCTAATAACAACAAT}$
	349901	${\tt AACGGCATCTCCTTGACAAGTGTGTTGCCTAGTAGCAATAGTAGTCAACA}$
	349951	${\tt GTTTAATCCCAATTCAGATGATAATAAAGTCACTCAAGGTGGTGGCTCCC}$
4 5	350001	${\tt CAGCCAAAAAAAACAACCACCTATTCCTTTTTACCCAATTCCATCAGTCCC}$
	350051	${\tt ACCAGTGACTGGATCAACGCATTGACTTTTACTAACAAAAATAACCCGCA}$
	350101	${\tt GCGCAATCAACTGTTGCTCAGAAGCTTACTAGGAACTATCCCGGTATTGA}$
	350151	${\tt TCAATAAGAGTGGAACGGGAGATGAGTTTACCCATACGAGTGAGCAGAAA}$
50	350201	${\tt TGGGATAAAACGAATGAAAAAGATGGGAATTTACCTGGGTTTGGGGAGGT}$
	350251	${\tt GAATGGTGGTTTTTATCAACTAAATAAAAAACTTATTTAGCTTATTTTAT}$

	350301	${\tt TAGGTTTTACTTATTTAATAGTTAAAAAAGTTTTGAATTTTTCTTAGTT}$
	350351	${\tt TTTTATTTGTTTAATAGTTAAAAAAACACTAGGCTTTACCTTTATTTA$
	350401	AATAAAACCTTTACCCCTATTACCAAACCATCCATAACACCAACTTGTTT
	350451	$\tt GTGTTGTTCAAGTCTAGGGATGTAAAAGTTAAGTATGACAGTTCAAGTGG$
	350501	${\tt CTCAAATAACCAGATTAGTTTTGATTCAACTAGTCAAGCTAACAAACCCG}$
0	350551	${\tt CCTACATCGTTGAATTTACTAATTCCACCAACATTGGCATCAAGTGAAGG}$
	350601	${\tt GTAGTGAAAAAATATCAGTTAGATGTACCGAATGTTTCTAGCAACATGAA}$
	350651	${\tt CGAAGTACTGAAAAATTTAATTCTTGAACAACCTTTGACTAAGTATACCT}$
	350701	${\tt TAAACAGTAGTTTGGCTAAAGAGAAGGGTAAAACGCAAAGGGAGGTGCAT}$
5	350751	${\tt CTGGGTAGTGGGCAAGCAAATCAGTGACGATGGATGGTAATCAACATGG}$
	350801	CCTAAACAACAATCCCAGTCCCAATGCATCAACCGGATTTAAACTCACTA
	350851	CCGGCAACGCATATAGAAAATTAAATGAGTCCTGACCAATTTATCAACCA
20	350901	${\tt ATTGATGGGACCAAGCAGGGCAAAGGGAAGGATAGTAGTGGGTGG$
:0	350951	${\tt AACAGAAGCAACAACGGCAAAAAATGATGCGCCCAGTGTTTCTGGAGGGGGGGG$
	351001	GATCAGACACCACTTCAAAATTTAAAAGTTACCTCAACACCAAGCAAG
	351051	${\tt TTAGAGAGCATCGTTGTTTGATGGGGATGGAATGAGGAATGTGGT}$
25	351101	TACCCAGCTCTATTATGCTTCTACTAGCAAGCTAGCAGTCACCAACAACC
	351151	ACATTGTCGTGATGGGTAACAGCTTTCTACCCAGCTTGTGGTACTGGGTG
	351201	GTGGAGCGGAGTGCAACAACTGATTCATCATCAAAACCCACCTGGTTTGC
20	351251	TAATACCAATTTAAACTGAGGGGAAGATAAACAAAAACAATTTGTTGAGA
30	351301	ACCAGTTGGGGTATAAGGAAACTACCAGTACCAATTCCCACAACTTCCAT
	351351	TCCAAATCTTTCACCCAACCTGCATATCTGATCAGTGGCATTGACAGTGT
	351401	CAATGATCAGTTGATCTTCAGTGGCTTTAAAGCGGGGAGTGTGGGGTATG
35	351451	ATAGTAGTAGTAGTAGTAGTAGTAGTACCAAAGACCAAGCACTT
	351501	GCTTGATCAACAACTAGCTTAGATAGTAAAACGGGGTATAGGGATCT
	351551	AGTGACCAACGACACGGGGCTAAATGGTCCGATCAATGGGAGTTTTTCAA
40	351601	TCCAAGACACCTTCAGCTTTGTTGTTCCTTATTCGGGGAATCATACAAAT
4 0	351651	TCAAGTGGTTCATCAGGAACCATTAAAACGGCTTATCCGGTGAAAAACAC
	351701	AGAAAAATCAACTGTCAAGATCAATTCTTTGATCAACGCTACGCCGTTGA
	351751	ATAGTTATGGGGATGAGGGGATTGGGGTTAGAAATATTTTATGAGTTTA
45	351801	AAACAAGGTAATGCAGATAACTAGCTAAATCAACAACTGGAGGTTTTGTA
	351851	GCCCCATTTCTTAAATCCAAATTATGTAAGTTTTGCTGTTTAAGTAAATC
	351901	CATAAATTTACCATCTTGAACTTTTATCTGTTCTTTTACGTGTAAAGTGA
50	351951	AAAGTAGTTGATTGTCTTTAAATTGAAATAGAGAACCTGGATAATCAGTA
	352001	TTTTGAACTAAGTTATAATCCAAATCACCATCAACTATGAACTTGACATC
	352051	CATTTCACCATTTCATGATGAAGGGATACCAGAAAAAGGTGCAAATCAAC

5	352101	${\tt TAAATAACCCAGTTAATTTGTATCCACCTTGGTACTTTATGTCAATTTCA}$
	352151	${\tt AATTTAAATTTGTATGGATAATGTTGCCTAAATTCAATTCCATTATTTTT}$
	352201	${\tt TCAATCAATGGTTGGATTATTTTCCTTGTTTTCAATTTTTATGCTTGTTA}$
	352251	${\tt AGTTTAGTTTATGTCAGTATAGGAAGTTAGCTTTCCTCTTAATCAGTCA}$
	352301	${\tt GACATATAAAGACCTTCAAGCCCTTGTCTAGGAAACTGAATTCCTTTTTC}$
10	352351	${\tt ACTAAAGGCTTTCTTTGCATTTtCACTTTCATCTTTTTTTTTT$
	352401	${\tt AATAATCTGACGTTGCTTTAGTAAAAGCTATTAATTAAAAGTGAAAAAGTT}$
	352451	${\tt TTATTTTATCAGCAGCAAAAGAAGTTTTTAGAGCATCTATTAGTTGAGT$
	352501	${\tt CTTATCAGTAACATCTTTCTTTTGATTTTTCAATAATCTTTAAATTCTT}$
15	352551	${\tt TAGCATTTTCAAATGATTTATTAAATTGTTCTTGTTGTTCTTTTAAGCGC}$
	352601	${\tt TTAGCTTCCTCTTTTTCGCTTAAGTTCTTCTTCTTTTTTTT$
	352651	${\tt CTCAGCTAAAATTCGTTGTTGTTCTTCATAATCAGCTTTAGCTTTTTCAC}$
20	352701	${\tt GTTCTTTTTGAATGGTTCAATTATTTCTTTTTCAAATTTTGTTTTAGCT}$
	352751	${\tt AAATCTAGTTGTTCATCAATTTTTAAAACTGAATTAAAGATATTTGTATT}$
	352801	${\tt GGAAAGAAAAGTGAATCACTTACAGCAGTTTTAGCTATTGAAGTGAGAT}$
	352851	${\tt CATTTTGATTTATCAACAAGTTTATTAATTAGAGGTTTTCAAAACAAT}$
25	352901	${\tt TGGGTATTTAGATCGTTACCATTAAAGCTATTTTGCAACTCTTGTAAATT}$
	352951	${\tt CAAAAAATTAGAAGTTTGGGCTTTTAAATCAAATTGCAAGTTAACAGTGT}$
	353001	${\tt TGTTACCACCTTCATAATCAACTTCAAAATCCATTTTGATTTCAAAGCTA}$
30	353051	${\tt TAACGAATCTTATCTTTAATAACAATGTCATTTTTTAACCAATTCAAGA}$
	353101	${\tt TTAAAGTCTTTTAATTGAATTTTCTTTAAGTTGTATTGATTAAATATTTC}$
	353151	${\tt AACAATACTTTCGGTAATGTTTAAACCTTTTGGATGCAATTGTGGAAAGA}$
	353201	${\tt AATTTCATTAAGGAATTTAAAAAAATTCTGTGGAACTTTAGGCAATTTA}$
35	353251	${\tt TCTTCATCATTAATTGGAAAAATTTTGTTAGTTTCATTAATGCTTGATTA}$
	353301	${\tt CAGCCTATTTAATAAATCAACTGTTTTTTTAATACCTGATTTAAAACCAC}$
	353351	TTAAAAGATGAAAAATATCTATAACATTAAAGTTCCTAGGATAAAATTCA
40	353401	TTCTTAAATTTCTCTTGAAATAAGTCAAAGTTTTTATCATAATCTTTCTC
	353451	TTTAGCAATATAGTTTTCTTCTTGCTCTGTTATAGCTGTTTGCTGTTGGA
	353501	GTAGAATACTATTTCTCTACTATTTGTTGTACTTGATTTTCTTAGACTA
	353551	${\tt GGTTGACTTAAATTTGCAGCTGAGCCATTATAGATAGAAGGGACAATAAG}$
4 5	353601	TACACCAGCAGTTAAAGTTGATGCAAAAGAGACAAAGAGAAAAGTTTTAA
	353651	TTTTAAAACGAGATTTTTTGATAGCTTTCAAAGTTAATAATTAAT
	353701	AAATAATTAGCTAAAACTAAAAAAGTTACAAACGAAATTGAATTTGTTTA
50	353751	AAACTAAAACAGACAGGGAAAATTTAACATTATATTCTAACTCTGAATAG
	353801	CAAAAAATATAAGAATAGCTTTAATTCAAAAAAGTAATTCGGATCTTAAA
	353851	${\tt AAATATTTTTAATAAAGATTAATTGCCAGCAACTTGAATCTAAGTAATA}$

	353901	${\tt AAGTGAATATTTATTTATTAAAAAACTTATATTCAAATTTGTAGTCTAT}$
	353951	$\verb"TTTTAACTAATATAAAAAGTTGAATATTTAAAAACAATTAATT$
	354001	ATTAATAATCCAGGATTAATAAGTGCTTTTCAAAAAATTTACTTGGGTCA
	354051	${\tt TTCCAAGTTTGTTTTAACAATTATTTCAACATCTTTACTTATTAGTTGT}$
	354101	${\tt GCAACTAAAAGCGATAACACCTTAATATTTAATATTTCACTTGATCATAA}$
0	354151	${\tt CGCTGATACATCAATAGAAAAATTCTTTACTGTTTTTTCAAAAAAAA$
	354201	$\tt GTGGAAAATTGAATAAAAAATTAATGTTAACTTTAATATAGTTGATGAT$
	354251	${\tt TCCTTTACAAAAATTAACAATATTCAAGCTAATAAAGCAGATTTTGCTTT}$
	354301	${\tt TGTTAATTCACAAGCTATTGCTTCAAATAATTGGTTTGGCTATACGCCAT}$
5	354351	${\tt TGATACAAACTTTAACAACAGCTTTTAAAGAAGATTTGGAGCTTGATTAT}$
	354401	${\tt TATGAAGATGGTAATTTACAAAAAAAAGCTGAAAAAACGAATTTGCTTTT}$
	354451	TCTAAGTCCACCTTACAAAGAATGAGATGATATCAAACAAA
0	354501	GAAATCGTTATGACTTTCTTTATGAACCTTCGAAGTTAGTT
	354551	AGATCAATGATTTAATAACTGGTTCAGCTAGTGAAATTACAGCTATTAA
	354601	AAAAGCGTGAAATGAAAAAACTGAAATCAGTTTATGAAATTTGGAATTG
	354651	GTCATGGACAAACAAATTCAGCTTCACGTTTTGAGCTACCTGATCTTTTA
25	354701	TTTAGAAAACATTTTGCTAAAAATTATCCCGGATTACAAAATGCAATTAA
	354751	TTCTGATCCCGATAAATTTGCCGTAGTTAGAGGAAGAGAGAG
	354801	ATAAAAACATCAAGATTGTTTTTGATGATGCTAATTCATTTTCTTGAACA
30	354851	CAAAATATTAAAGGTTCAAAAAGACCTTTTTACACTCCAATTGATCCTAA
	354901	CGATAGATTAGAAATTCTCACTTATAGTGATCCGCTTTTGTATGACATTG
	354951	GTATTGTTAGCAACAATTTATCAAGGATATATCAAAAAGCTATTGGTGAA
	355001	ATTTTTATTGAGTTAGCACAATCAAGTGAAGATCTATATGGGCCTTCAAT
35	355051	TGGTTATAACGGCTATAAAATGATTAATGATTTTGAGAAAGAA
	355101	AAATAATTGAAAAACCTATGGAAAATAAACCAATTCTTTTGAAAA
	355151	AGTATCAATAATATACAAAAAAGCTCCACTTTTGCAAAACATTAGTTTTA
1 0	355201	AAGTAATGGCAAAGGAAAATGTTTGCTTATTAGGTAAGTCTGGAGTTGGA
••	355251	AAATCGAGCCTTTTAAACAGTGTTACTAATACAAAAATAGTTAAAAGTGG
	355301	GTTAGTTTATTTTGATGGTGTTGCTTCAAACAAAAAGGAATACAAAAAAC
	355351	TGAAAAACAGTGCAGTTATCTGGATCAAATACCAAATTTAATTGACACT
45	355401	GATTATGTATATGAAGCAATTTTAAGATCTGCTAAACAAAAATTAACTTG
	355451	ATTACAAAAATTAATTTGTTTTGAACCTAAATGAATTAAAGATAAGATCT
	355501	TAGCAATACTAAAAGAAGTTAATCTTAATGATTATGTTAGTTGTATTATT
5 0	355551	AAAGATCTTTCTGCTGGACAAAAACAAAGAGTTGAAATTGCTAAGCTTTT
50	355601	TTTTAAATCACCAAAGCTACTTTTAGTTGATGAACCAACC
	355651	ATCCTTTAACCGCTTCTAAAATAATGGATTTAATTACTGATTTTGTGAAA

	355701	${\tt AGAGAAAAAAAAAACTTTGGTTTTTGTAACACATGATATAGATTTAGCACT}$
	355751	${\tt GAAATATAGCACCAGAATTATAGCACTTAAAAATCATGCTTTAGTGTTAG}$
5	355801	${\tt ATAGATTAACAGAAAAACTAACAAAAGAACAACTTTATAAAATTTATGAT}$
	355851	${\tt AACTAAGTTGTTTTTCACCAAGTTGGCGATAATAAAAAACGCTTAATTT}$
	355901	${\tt GGTATTGAAAACTATTAATAATTAGTGTTTTTGGCTATTGTCATTTAC}$
10	355951	${\tt AGTTGAATAGATAACTTTTCTAGCTTTAATCAGTTTGGTTTAAATGTTTT}$
70	356001	${\tt TATTAATAACATTACAAGCTTATTTACCCCCAATCTTAACCACGAATATA}$
	356051	${\tt CACTAGTAAGATTCCTAGCACAAACTGCTTTTTTTGTTACAGGAGGTAGC}$
	356101	${\tt TTTTTAGGATTTATTTTGCGATCCTATTTTCCTATTGAACTGCATTTAA}$
15	356151	${\tt AATTCAACCCTTTTACATTGCTCTACCGATCAGGTTAATAACTATAGTTT}$
	356201	${\tt TAAGAGCATTTCCCGTACTTTTATTTGGTTTTTTATTTAGTAATTTATTT$
	356251	${\tt AATAAACAACTAGCAGCTACACTAACGATTAGCTGGTTTAGCTTTTATG}$
20	356301	${\tt GAATACAAAATACATTACTACATTTTTTGAAAACAGCAATTTAAAGTATT}$
20	356351	${\tt TTTTTAACAAAAAATTAGAGAAGGAAGTGGTTTTAAAGCTTTTTGAACT}$
	356401	${\tt ACTATTTTCTTAGTGAAAATGAGCGACTATGGTTGTTTTTTTT$
	356451	${\tt TTTAGAAGCAAATTTTCGTTGAACTACGCTTCTAAGTATATTTGGCATTG}$
25	356501	${\tt GTGGCATAGGACAACTAATTGTTGATCCTTTAAGTATAAGGGTGCAGTTT}$
	356551	${\tt GATCTTGTATTAATTCCATTAGTTGTTTTAATAACCTTTCTAATTTTAT}$
	356601	${\tt AGAAGTTGTTTTTTTTTTTTTTATCAAGTTTTGTTTTTGAGAAAAATAGTG}$
00	356651	${\tt AAGATTTAAGACCAATTTTAAAAACAACAGTTATTGAAAAACGAAAGTGA}$
30	356701	${\tt AAAAGAATTATTTTTTTTTTTTTTTTTTTTTTTTTTTT$
	356751	${\tt AGCCAATTTAGTGACTATTGATTACAGAATTAACGATGCTGAATTTTTAC}$
	356801	${\tt AAGATTTTTTAACCAGTTTTTTCAGTTAAAAAGTAATCTTTTTTCAAGT}$
35	356851	${\tt AATGATCCTAATATAAaCCCCAATTTTAATGTTAGTTAAACTTACAACTCA}$
	356901	${\tt AGCTATTAGTTTAATTAGCTTGGTTGTAATCTTTTCTATTCTCTTTGGTT}$
	356951	${\tt TTATATCATGTATTTATTTAAAAAGAGATTTTCAATTAGTTTTAAGATC}$
	357001	${\tt TTATTACTTTTGTTAGAGTAGTTCCTAGTATTCTGTTTAGGCTACT}$
40	357051	${\tt AGATCCTTTATTTCTAGAAGCAAAAACAACTATTATTTTAGTCTTACTAA}$
	357101	${\tt TTAATCATGGTTCAAGTTATGGCCAATTGATGTCAATTAACTTTAATAAG}$
	357151	${\tt GCAAATCAAAATATCATCAATAACTATAAAAATCATGGTATGACAAAAGG}$
45	357201	${\tt TTTTATTTATGAAACTATTTGTTAGTTGAAAATAAACCTAATTTAATAA}$
	357251	${\tt ACATTACCAGTGATGCTTATGATAGTGTAATTAGGGATTTAATTTTGTTT}$
	357301	${\tt GGTAGTTTTGGCGGTTCAATTATTGGTAGTAGAATTACTAATTTTTTTGA}$
	357351	${\tt AAGAGCTCAATTTGATAATCTAGGTTCTGTTACAATCCCATTAATGGTTT}$
50	357401	${\tt ATCTAATTGCAATAGAAATAATTTTCCTTTCAGTTAGATTAACTAGAATT}$
	357451	${\tt TCAGTTTTAAGAACTACCTTTACTAATGATAGTTTTGAAAGAAGCGCTC}$

	357501	TAATATTAAAACTGCAGCTAATGTATCTTTAGCCTTTTTAAAATCCTTAT
	357551	GTTTTAAATCCATTGTTATAAGCTTATCTTTAACAGCACTTGTAGTATTA
	357601	CTTTCATCAACCAAAATTATTGGCAAATTAAAACGTTTTTCTAAAAGTTG
	357651	TTTAAATGATTTAATTGCCTTTTGAATATCAGAATAATAGTGAAATTTGG
	357701	GAAAACCTATCACTATTTTTTCAAGTTCATACCCATCGTTTTTAATTCGC
0	357751	AAAAATAAGTTGTTAACAGCAGTTTTGAAATTATTTTTTACTTCAAAAAC
	357801	ATGAAATGCAGAAGGATATTTATCTAGTGTATTGGCAATTGCTGTACCTA
	357851	TTTTTTCAAGCCAAAATCAATTGCTAATATATATTTCACTATTTATT
	357901	GAAACAATTCATTAAGCTTTTGAGGGGTAACATTATCCTGAAAAGAACCT
5	357951	CTAAATAACTTATCATTGCCTCCGCCCTTTAAATTAAAACTATTTCTTAA
	358001	TTTTTCAATAATGGTGGTAGTTTTATTTCCTATAACAATAAATGAATTAC
		TTTCATTGAATTGATTAATTATCAAGAAATTTTTAGTTTGATTTTGATTG
20	358101	AAAACATCATGTAGTGTTTGTAGCAATAGTTTAGGTTCTACGTCATTAAA
-		AGTGGCAATTACATAACTTTTATTTTCATCTACTAAGGATAATAATTGCT
		TTTTAATTGATAAAGCTAAAGCTTGCTGTGATACTTTATAGTTTTTTGTT
		TTTAACTGGTTAATATCATTTTTTAAAGCTAATAAAGTATCAGATGCATC
?5		TCTTAATTGGGTAATTTTTTCAGGTAAGATAAATTTATCTAGCCTTTGTT
		GCAATTCTTTTAACTCAACTTTAAAAATTGAACTATCAATCA
		ACTTTTCAAGTTCTGATTTTAATTGGATTAATTTTTGATTTTCTGCTTT
3 <i>0</i>		TAAATAGTTGTTAATAGTTTCATTACTGCTAATGATTTCAATCCTTCATC
,,		TTCCAGCTCCTAAAGAATAGAAATCAGTAATAAAACAATCTTCAATTGAA
		GCAGTGTTAGCTACATGAGTGCCACCACACACTCAACACTATAATCACC
		${\tt AAAGCGGATCACTCTTAATATTTCATGTTGAGAATATTCCTCTTCAAAAT}$
35		${\tt AAGCAATTGCATTTAGTTTTTGACTCCCTTCAAAATCAGTAAAAATCTCT}$
		${\tt TTTGAGCTTATTTTTTTTTTATTAATCAAAGAGCGAATTTTATTTTCTACTTT}$
		CTCAAGTTCATTTCTTGTTAAATGACGATTCAAATTAAAGTCAATAGTTG
40		CTTTTTGCGCAGATTTAAAAGCACCACTTTGTTTAATAAGTGGATCAATT
•		TCTTTTTGTAAAGCTGCATGTAAAAGGTGTTCTAAACTATGGTTGTTAGC
		AGCAAGTTTCTTCAAGTTTCATCATGTGATAAAGTTACTTGATCATTGA
		GTTTAAAACTACCTACTAAAAAGTAGTGGAAGTGTTGTTTATTAGGTCCT
4 5		TTAAATACACCTTGAAAACTGATTTTTTGATCATTATTATTAGAATGATT
		AALGCAACTLCCTTCATCATATCTCTGTCCTCCAGAAGTAGCATATAAAA
50		CTGTTTGGTCAAAAACTACATAACCACTTTGATTATTAAGTTCTTTAACT
		GGTAAATAATTTTCATCAAAAAGACCAATTACCTTAGCATTAATTTTATT
		TTTGTGATAAAAAAAGTACTTTTAGTTTTGAAATTAACTAAATTAATAT
	359251	TTTGTTTTTCAAAATTTATAGTTTGGTTATTTTGCTTAGAGATAGAACGA

	359301	${\tt TGTTTGGCCATTAACTGATCAAATACTGTTCAATCAATAGTTAAACCTTT}$
	359351	${\tt TTGATTAACTAGTTCTCTTATTATTTCAACAGGAAAACCGTATGTTTCGT}$
5	359401	${\tt TCAATTGAAATGTTAATTGGGGAGTTAGAGTATTGTTTTTAACACTTTTT}$
	359451	${\tt TCAAACAGCACTAAACCTAAATCAATCGTTTTATTAAATGCATTAATCTC}$
	359501	${\tt TTTTAAAACTACCTGTTTAACAGTTTCATTTTTAGCTTTTAAATGTTGAT}$
10	359551	${\tt AATAATTCTCATATGAAGCGATGATTTCATCTATTATCTTTTCAATAAAT}$
	359601	${\tt GCTAAGTTTAATTGCAATTTCTTACAAGCTATTAAAGCACGTCTTAAAAG}$
	359651	${\tt TCTTCTTACTACATAATTTCTCTCATTAGGACCAGGTAAAACTCCTTCTG}$
	359701	${\tt AAATGGTAAAAGTGATTGCTTTAAAGTGATCAGCAATAATCCGAAAATAA}$
15	359751	$\tt CTCTGTTCTTTCACTTTTTGAGGATCGAATGTAAAGTAAGAGTTGGGATC$
	359801	${\tt ATATTTAAATGGACAAAAAGCTTCAATTATTTTGATTAGCTTTAAAAAGA}$
	359851	${\tt TGTCAGTATCAAAATTGGTTGGACTATTTTGTAATACTGAAACAAGTCTT}$
20	359901	${\tt TCTATTCCAGCACCTGTATCAATATTTTTTTGAGCAAGTTCTGTATAGTT}$
	359951	${\tt GCCATTACCATCATTATTAAATTGACTAAAAACAATGTTTCATATCTCAA}$
	360001	${\tt CATAACGATCATTTCAATGTCCTCAAAGAAAAGTTTTTCACCAATTTTT}$
	360051	${\tt TTAGGATCAAATTTCTCACCACGATCATAATAGATTTCAGTGCAAGGTCC}$
25	360101	${\tt ACAAGGTCCTAAACCTAAGTCTCAAAAGTTACGACTTTTGTCACACTTAA}$
	360151	${\tt TAATGTGATTTTATCAATTTTATGCTTAATTCATCTTTTATAAGTAGTT}$
	360201	TCATCATCTTCATAAACAGTGATATAAAAACGCTTAGGATCTAGCTGATA
30	360251	${\tt ATAATTAACTAAAAGATCAAAAGCAAAATCAATTGCTTCTGTTTTAAAAT}$
	360301	${\tt AATCACCGATTGAAAAATTTCCAAGCATCTCAAACAAAGTTTGATGTCTT}$
	360351	GAAGTAAAACCCACATTTTCAATATCATTTACCCTTAAACATATCTGTGC
	360401	${\tt ATTAACAAGGCGTTTAGATGGTGGTGTTTTTCTAGCACTGAAATAATCTT}$
35	360451	TTAAAGTAGCAACTCCTGAATTGATTCATAATAATGATGGGTCGTTGATC
	360501	GGAATTAGTGATTTTGAAGCTAAAACCAGATGGTCTTTCTT
	360551	ATCTAATCAGGTTTGCCTTACTTTATCAGTTGTTCAATTCATTGCTTAAT
4 0	360601	TTTAAATGCAATTTACCAGTGATAAAAATAACTATAGTTCTTTTATTTGC
,•	360651	TAATTTATTTCAAACTTTTTGTTAGCAATTTGTGCATAAACATG
	360701	ATTATCAGCTAAGAACTGCTGAAACTTATTTTGACTGTTTACTGTTCATA
	360751	AATTTAAAGGTAAGTTAAGTTTTTTGATCATTTGGGGATACTTTTCATAT
45	360801	ATTTTGGTTCATGGGTGGAGGAATTGACAAATCTTTTGGATTCTAGCTGT
	360851	ACTAATTGTTTCAAACTGTTTTTTAGTCCAAAATAAAAAACCTTTTTTGT
	360901	AACTATTATCTAAATCATAAACTTTTTGCAAAGATTCAAAGTTAAAGGAT
50	360951	GAAAACAAGATCTTATCTATTGCTTTTTTACCATAACCTTTAACTAGGTC
	361001	AACAAGCTTCTTTTCAATTCCTAAATATGGTTTTTGATCAGTTTTAATCT
	361051	CAATATTGATTAACTTAAATTTATCTAAATAAAGATCTAAGAACTCTTTT

	361101	AAAGTTAGGATCGATTGAAATTGAATTTTAAGGTGAAAAAAAGCACTATG
5	361151	ATCATCTCTTTTTAAACTAACTAATGATTCAAACTCAACCTCCTTATTAA
	361201	CTAATGCGGTTCTCAATGTTGTCTCATCATGAATGATAACTAAC
	361251	TCTTTAGTTAAATGAACATCAAGCTCTATTCCATCAAAACAATATTCAAA
	361301	${\tt AGCTAAATCAAATGCTAGTTTGGTGTTTTCTGGAGCAATGAATG$
10	361351	${\tt CCCTATGTGCTAAAAGCAATTGCTTGTTATGCATTATCAAGATCTCTTCA}$
10	361401	${\tt ACGGTATGAAGCTTTATTTAATCGTTTAATTTCCATGCTATTTGAGATAA}$
	361451	${\tt AAACAATTGATCCACATATCAAACCAAACAAAGCAATGGATAAACAAATA}$
	361501	${\tt GCAGCGATAATTTGATAACCAGTGTTACTAGTATTACTTTGTCCTGCAAC}$
15	361551	${\tt TGTATATTTCTTACCAACTTCAGCAGTCACAGTGTAAAGTCATCCATC$
	361601	${\tt TAGAAAAACCAATAAAACTAAGTAAACCAACACTAGATGCATAGTTATTT}$
	361651	${\tt TTACCAATATCAATTTCACCTATTTGGTTATATCTGACTGTAACCATTCC}$
20	361701	CCATGATAAGATACCAGTAAAGATATAGAGAATGGAAGAGAAAGTAATTA
20	361751	${\tt AAGTGATGTTAGCAGAATTTGTTTGTACAAAACCAAGTAGAATAAATGCT}$
	361801	AGAACAAATACAATACCAAGAACAGTACATATCATTAAAAACAAGATATA
	361851	${\tt GCTTTTACACTTATCTGCTAATCTACAAAGATAAACACTAACAGCACTTC}$
25	361901	TCAGTGCATAAGTTCTAATTCCCCCAATTACAGTTACTAATACTACAGGC
	361951	GCTAAAAATGCATTTTGCAACATCTGTAAAAGGTAATAAGCAAAAGTGCT
	362001	TTGAAACACATACATCCCCATTAAAAAGAAGGATAGTAACCATAACTTTC
30	362051	AGTTTTTTAAGGTCACTAAAATCTGGTTTAAATTGCGTTTAAAACTTACT
30	362101	AAAGTGGTTTGACTTTGTTTTTCAATTGGTTTTTCCTTAACAAAAAACAA
	362151	AACTGTAAATCCAGTAATTACTAGCATTATGGCAATGATAAAAGCGTATG
	362201	CAGCAAATGGTTTTGAATCAGCATTCTCACTACCTCCTGATGGATAGAAA
35		ATGCTGGTAATTATCAATGCAATTAGAAAGATAAATATTAAACCTCATAT
	362301	TCCATTAGCAGCTCCCTGAATTCCAAAACCAAGTGCTTGGTTTTCTTTTG
		TTGCTTGTTGACTAGCTAGTTTTCATAATGGTGTTCAAAAGATTAAAGTA
40	362401	CTTGTTATCCCTCATAACCCTCATATTACACAATACTGAATAAATA
40		ATCATGGCTTTGTTGGTTTTAGTTAAGATGTTGGCTGCTAATCAAAAAG
		TAATTGCTCCAGTAGTAATTGCTGATAGAAATAACAATTTTCTAGAACTG
	362551	AAGCGATTTGTTAAAAACCCTCCTGGTAGTTGAGTGGCAAGTGTTACATA
45		ACCAATGATAGAAGTAACAGTAGCAACTTCATCCTCTGTAATTCCTAAGT
		ACAAGTGGAGGTTAGGAACAACATTCTTAACATAATAGGGTGCAGCAATT
50		ACAAATACATCAATTGCTCCCAAAATAATTAAGGCAAGAATTTGTTGTTT
		TGAAAAATCCTTTAAGCGTTTTTTAAATCCTTTTTTTTTT
		. CTAATGATAAAGTGGGATAAATTAAATATACATCTAATAATAAAAGTGGA
	362851	TGGAAGTGAAACGTTCTTCACTTACTTTAAAAAAGAAAAATAATGTTTAC

	362901	IMOMAMACIATITITICITAMATTARTECTOCTCCTARTCARTITION
	362951	${\tt CAAGTGTATATAATACACCAAACTGTCCAGATGCAACACTTATAACAGGAACACTGTCCAGATGCAACACTTATAACAGGAACACTGTCCAGATGCAACACTTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCCAGATGCAACACTGTATAACAGGAACACTGTCAACACTGTCAACACTGTAACACAGGAACACTGTAACACAGGAACACTGTAACACAGGAACACTGTCAACACTGTAACACACAC$
5	363001	${\tt TTTTTAAATGTTATTTCCAGTTTATTATCTGATAATAATTTCAACTTTGC}$
	363051	${\tt AATTTCTGGTTTTTGAGCATGTCTAATTCTTACCAGAACTTGACTAGAACTAGGAACTTGACTAGAACTAGAACTAGAACTTGACTAGAAACTAGAACTAGAACTAGAACTAGAACTAGAACTAGAACTAGAACTAGAACTAGAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAACTAGAAAACTAGAAAACTAGAAAAACTAGAAAACTAGAAAACAAAAAAAA$
	363101	$\tt GTTGCTTTGGTGTATACAACCAGTTAAATTGATCCAATAAAATTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG$
10	363151	${\tt TTCAATAATTCTTCTTTGTCACAAGAAACAAATAATTCATTAGTTTCAATAATTCAATAATTCAATAATTCAATAATTCAATAAT$
	363201	ATCCTTAGCAACAACAAATGACGTTGTTTTAACCCCCCTAAATTTAATC
	363251	CACTGCGTTGACCAATCGTATAAAACCAAACACCATCATGTTCACTAATA
	363301	$\tt GTTTGTTTGGTTTTTCAATCCTTAATTAATCCTTTTTTTACAGGTAAATAATCCTTTTTTACAGGTAAATAATCCTTTTTTTACAGGTAAATAATCCTTTTTTTACAGGTAAATAATCCTTTTTTTACAGGTAAATAATCCTTTTTTTT$
15	363351	GTTTTTTAAAAAATCACTGAAATGTCTTTCACCAATAAAACAAATTCCAG
	363401	TTGAATCTTTTTTTTTCTGCAACTTCTCAATTATTTTCTCTAGCAATATTT
	363451	CTCACTGTTATTTTTTTAAATCTGCTAAAGGAAAAATAACATTCTGAAA
20	363501	$\tt TTGTTCTTTTTAACATTTGCTAAAAAATAAGTTTGATCTTTATTGGTATGGT$
	363551	$\tt CTTTAGGAATAGAAAGCAAAGGCTGATTTTCTATCATGTTTATTTTGGCAATAGGAAAGCAAAGGCTGATTTTCTATCATGTTTATTTTTGGCAATAGGAAAGGCTGATTTTTTTT$
	363601	TAATGACCAGTTGCAAAAAGAGAATTAGGGTTAATTTGCTTACAAAAATC
	363651	ATGCAATAAACCAAACTTAATAAAACGATTACACCAGATGTCTGGATTTC
25	363701	GGGTTAACCCTTTTTTGAAACTTTGAATCATAGGTAAAAAAACTTTGTTT
	363751	CAATAAGCTTCAATTAAGTTTTTTTTTTTTATTAACTTAATTCCTAAAGAATT
	363801	AGCGATTTTTTTAGCCTGTTGGAAGTCTTGAAAAGATGAACAACCTGATT
30	363851	TGTTATTATTTTTTTTTTTTTTTTTTATGACCATAAAAATCATTATTAAGTGTCTC
~	363901	TCCCAACATTCCATAAAAACACCAATAACTTCTTGGTATTGCTTTTTTAA
	363951	AAGTAAAGCACTAACAGCAGAATCAACACCACCGCTTAAACCTATAAAAA
	364001	$\tt CTGTTTTTGCAATAATTGACATTTTTAATAAACAGCGTGAATaGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAACGCAAAACAGCAAAACAGCAAAACAGCAAAACAGCAAAACGCAAAAACGAAAAAA$
35	364051	${\tt TGTTTACTAATCTTTGGTGAAATCTATTAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTGTAATAGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGCCTTTTTGTAATGGATTAATGATAATGATG$
	364101	GCAAGTGCAGAAATAAACACTATTAATGCTTCATAAAAATTTTGACAGCA
	364151	$\tt CTGTTGATCACTATCTTTAGGATTTTCTACAACTTTTGCTAGATAATCTAGGATTA$
4 0	364201	GCTGTTTAATTACTTCAGTTTGGATAAAAAAACCATCACTTAACATTGGT
	364251	TTGAAAAAAATGGTTGGTCATCATAATCATCATCTCATAAATAA
	364301	ATTGTCTTGTTCTCGTTTTAAACACAAATTAAAGTTAATGCGAAAAGTCT
	364351	CAAAATCAACCGCTTGAAATTCAGTTTGTAAAAATTTTTTAAAAGCTATA
4 5	364401	AGTTGTGGTTTCATTACACCAGTCTAAAAAGTTTTAACACTTCTTGTTC
	364451	AGATAGCAATCCTTAAACAGTTTATTTCAGTATTACTTAAATAAA
	364501	AACCAAAATACTGTAAAAGGTTTAATTTAAAAACTAATTTCTTTATTAT
50	364551	CTAAGTTTAAGTTAAGTAAACCTAAAACATATTTTTCCAGATCAAAC
50	364601	ATAGCTAAATCACTAGTTTTTTCACCAAAACCTATCAGTTTAACAGGCAC
	364651	GTTAAACATATCTTTAATAGCTAAAATAATTCCACCCTTAGCAGAACCAT

2047	01 CCATTTTAGTTAAAACAATCCCTGTTAGTTTGGAAAATTCATTAAATA	
3647	51 TTTGCTTGTGATAGTCCTGTTTGACCTACTGTACCATCTAAAACTAAA	AG
3648	01 TGTTTCACTAGGTTCACTTCCACTTACCTTTTGAATAATTTGATAAAT	TT
3648	51 TTTGCAATTCATTAAGTTAAGCTTGTTTTGCAATCTTCCTGATG	TA
3649	01 TCACATAAAACAAAGTCATATTTATCATCAATCCCTTTCTTT	CG
10 3649	51 AAAGATAACAGCTGGAGTTTGTTCTTTAGGGTTTGGAAGTACAATGTC	CAC
	01 AGTTTAACAGCTTTGCTCACTGATTAAGTTGTTCAATGGCTCCTGCTC	CTA
3650	51 AAAGTATCACCTGCAACAAGTAGAACACGTTTATTTTTTTT	AA
3651	.01 ATCCGCTATCTTAGCTAAAGTAGTTGTTTTACCAACTCCATTAACACC	CAA
15 3651	.51 CAAAGAGATAAACATTTGTAAAGTTAGGTTTAACTATTAAATCAGTAT	rca
3652	01 AAGAGTTTATCTTGGATGTAATAAACAATAATTTGGTCAATAATTAGC	CTC
3652	251 TTTAATGAGCTGAAAATCTGTAATTCTGTTTAGCTTGATCTGTTCAAT	AAT
20 3653	OL TAGCATCACAAATTTTGTTTGCAGCATGATAACCAACATCAAGCAAAA	ACT
	351 AGCCCTTCAAATAGATTTTCTTTAAACTGTTCGTCAACATTAACATA	rcg
3654	101 TTTTGACAGTTCATTAATAGTTTTAGCGAAAGTTGTAGCAGATTTTTT	rca
_	151 AACCCTGATAGTAAGTTTTATTATTGGTTTGAAAAAGGCTTTGTTTT	
	501 ACTTCTTCTTTAAGCTGTTTAGCAACTGATTTTTTTGGTTTTAGTTTC	
	551 AATTAACTTGCTTAAAAAGCCCATTATTAGTTAATTAGAATCATTTTC	
3650	501 ATACATATTTTCAGCATTTTCAAGTTCAACTGCAAAGGTTTTAGTTA	ACA
30	51 CCTTTAGTTTGCATTGCAGCACCCAATAACATGTCACATTTCATCAT	
365	701 ACCTTGACGATGGGTAATAATTAAAAATTGGGTGTTTTTGCTAGCAG	
	751 TAATGATGTTAGCAAAGCGCTCCACATTAGCAGGATCAAGTGCACTT	
	801 GCTTCATCTAAAATAACAAGTGGAAAAGCACTTACTTTCAAAATACTA	
	851 TAAAACAGAAAGTGCAACTAAAGTTTTTTCCCCGCCTGATAACAACA	
	901 AGTTGGCAATATTTTTACCAGGAGGATTTGCAAAGACATCTATCCCT	
	951 ACCAATACATTACTAGGATCAGTGTAACGAATTTGGCAAGAACCACC	
40	001 AAATAGATATTTGAAAGTTTTTGGCAACTCTTGATTTAATTTTTGGA	
	051 GTTGATCAAACTCATTGCTAGCAATTTCATCAATTTCAGTAATAGCT	
	101 TGCAAATTTTCAACTGCTTGTTGAGCTGATTCATATTCAGCGTTAAT	
	151 ATCAAAGCGCTTTTGCTTTTCACTTATCTCAGCAATTGATTCCATGT	
	201 TTACCCCCATTTCATTCAATTGATTTTGTAGTTTAGCAATCTTGTTA	
	251 GCTTGCATAGAAGAGAGTTTAACTGGTTTGTTGTGATTAGCAATAGC	
	301 CTCCATTGTCATTTTGTAAACACTGTTAATCTTTTCAGTGATATTTT	
50	351 TTGTATTTCAAACCTAATTTTCCTTCCCGCGCTGAAACTAATTTA	
366	401 CGTTGTTCATCTAACAATGCCCTAAGATCAACTATCTTCTCTTCACT	
366	451 TTTAATTGTTTTTGCTAGTTGTAACTTAAGTTCTTGATTAAGCTTTA	ACT

	366501	${\tt TAGAGTTAATTTCATCACGTTTAGCTCAAGCACTATTTAATGAATG$
	366551	${\tt AATTCAGCTTCACTAGCAACAGCTTTTTTACCATCAAAAGTTGTGTTAGT}$
5	366601	${\tt AAGTTGTTCATATTCCATTTTGAGCTCTAAAATAATTTTTTTAATTTGAA}$
	366651	${\tt CAATACGCTCTATAAACTTGGCTTGTAACAACTCTTCATACTTGAGTTTT}$
	366701	$\tt CTGTTCATTTCATCTAGCTTTACTTCTAGTTCTGTAAGCTCCTTTTTTAA$
10	366751	${\tt CTCTCGTTCGTTGTTTCTAGTTTGTTAATGTTCTGTTCATTATCAAGTG}$
	366801	${\tt AAGCTGATGATAAATACCCATCACTAAGATTTGTTTTTTCAAATCCACCA}$
	366851	${\tt TTGATAATTCCCCCTGCATAAACTGTCTCACCATCTAAAGTAACGATCCT}$
	366901	${\tt ATATAACTTGTAAGTATAGTTAGAAAGGTTAATGGCACTATTTAAATCTT}$
15	366951	${\tt TAGCAATAACTTGTGCTAAAAGAGTATTTACAACTGGTTGAAACAAT}$
	367001	${\tt GGATCACACTTAACATGATCACTACAAACACCAAGAAAACCATCAAGCTG}$
	367051	${\tt CTTTAAAATTTCCATGTGTTCGTTTGTGATTTTAGTATCACTAGCAACAT}$
20	367101	${\tt CATCTAAAGGTAAAAAGTTACTTTACCTATCTCATTTTTGACTAAAAAA}$
20	367151	${\tt TCTATTGCTTGGATGGCAGCATTATTGTTGTTAACAACTAGGTAACCAAT}$
	367201	${\tt TGATTTTCCAAGTGCTTTTAAGATAGCTTTTTCATACTGCTTATCAAATT}$
	367251	${\tt TAAGAAATGTTCCTAGTGTATTTAAAATTCCTGTTAAAGCATTAGCATTT}$
25	367301	${\tt TTAACTAAGATATTGGCATTGTTAGTTTTTTTAAGCTCATTAGTTTGGAG}$
	367351	${\tt TTCAATAATTGTTTTTAAGGAACGTTGGTAAATTAAATCAGCAGTATTTT}$
	367401	${\tt TTTCAATCTGTAACTTTATCTGATCAACAAGTGATTTTTGTTCGTTAATT}$
30	367451	${\tt AGTTTTCAAGATCAGTGATGGTTGTTTTGGAATTTGATAGTTGGTTTTC}$
30	367501	${\tt AAAACCATCAAGCTGGGTTTGATCAACTAAAATTAGTTTTTTAAAGCTG}$
	367551	${\tt CAGCTTTTTGCTTTTCATCTTTTTGTGAAAAACCTTGTCTTAACTGCACA}$
	367601	${\tt TCAATAATGACTTTACGTTGTTCCAATTCATTGATCTTTTGGTAAATATC}$
35	367651	${\tt TTGTAACTCTTTTGCAATTCATTAGATTGCATATCAGCACTATGAAAGC}$
	367701	${\tt GACTATTAAAGATAACAATCTGTTCTTCTAACAACTCTAGTTGGGGTTCG}$
	367751	${\tt TGTATTTAAAGTCATGTTCACTACTGTTAATCTGAAAATTAAACTTATC}$
4 0	367801	${\tt AAGTTCAGTTTGTGCTTGGAGATATTCCCCAACCAAAACAGCAAGTTCCA}$
40	367851	${\tt ACTCTTTCAATTCGTTTTTAACCCTAATGAATTGTTGTGCTTTTTCAGCT}$
	367901	${\tt TGTAATGTAAGCTTTTTTAAATCTTTTTTCAGTTCATTTAAAACAACGCT}$
	367951	${\tt AACTTGTTTAAGTTAATTAAGGTTCGATTTAACTGGTTAACAACTTCTT}$
4 5	368001	$\tt CTTTACGCTTGGTATATCTACCAATTCCCGACGCATCTTCAAAGATCTTT$
	368051	$\tt CTGCGTTCTTCTGGCTTAGCTTCTACAAATCAAGAGACACTCCCTTGTGA$
	368101	${\tt AATAATTCCAAGTGAACCTTTTTCAAGACCAATATCAGCAAAAATACCGC}$
<i>5</i> 0	368151	${\tt TAATTTCTTTTAAAGTTGCTGGATTGGAGTTAATAAAATATTCACTCTGG}$
50	368201	$\tt CCACTCCCTCTATAAACCCTACGCATCACGCTTATCTCTTTTCTTGAATC$
	368251	${\tt ATGTAATAAACGGTTGGAATTATCAAAGGTTAGCTCTATTTCAGCTAACT}$

	368301 '	TACTAGCAGGTTTGTCTTTAGAGCCAAAAAAGATCATATCATCACCTGAT
	368351	TTACTACGGAGATGTTTCATACTTCTCTCCCCTAAAACCCACTTTAATGC
5	368401	ATCAACAACATTGGATTTGCCCGATCCATTAGGACCAACAATACCAGTCA
	368451	TTGAATGGGTAAAATCAATTGTGATTTCATCAGCATATGATTTAAAACCA
	368501	TATGCGCGAAAACGTTTTAGAAAAACCATTTGTTCTAAAAAGCTTTAATT
10	368551	TGGATGTTGTTATTAGATTATACTAGTTGAAGTAAACTAAACTAGGCTAA
	368601	TTATTAGGTTACTAAAAAATAAGCTAATAACGCTTCATTTAAAAAAAGCTT
	368651	CTATGTTTTAATAGTAACTAGTTTATTTAATTTAAAAATTACATTAATTG
	368701	CTTTTAGAAAAGCAATATCATTTAAAAGTTTTTATTTAATTGCTTGAGCG
15	368751	GCAGTGATAATTCCAACATTAAAAATGTCACTGACACTAGCTCCCCTTGA
	368801	AAGATCATTCACTGGACTTGAAAGTCCAAGAACAATAGGACCAATTGCAT
	368851	CATACCCTCCAAGTCTTTGGGCGATTTTATAAGCAATGTTACCAGCATCT
20	368901	AAATTAGGAAAAACATAGATATTAGCACTATTTTTCAAGTTAGTT
	368951	TGCTTTTTGTAACCTAACCTTTTCAACAAAAGCAGCATCAAACTGGAGCT
	369001	CACCACAAACACTTTGATGCAATTCAGGGTGTTTTTCTAAAAATAGTTTA
	369051	GTTGCTAAAACAACTTTATCCACCATTTCACCCTTACCACTGCCAAGCGT
25	369101	TGAATAGCTTAAAAAAGCCATTTTTATCTCATCCTCATTTAAACTTTTGG
	369151	CAAAATTGAAGGTGTTTTCAGCAATTGTTGCTAACTCTTGGGAGTTAGGA
	369201	TAAACAGCAAAAGCACAATCAGTGAAGTACAAACGTTCTTCACCTTTTTC
30	369251	CATGATGAAAACACTAGAAACAAAATTACCAGTTGCTAGTAACTGTAAAG
	369301	${\tt CTGGTCTTAAAGTATCTTTTGTAGCATATTCTTTACCACAAACCTCACCA}$
	369351	TCAACAACCTTTAGAGCAACTAAGGTAGCAGCTAAAGAACTAGGATCACG
	369401	TACAAACTTTTGTGCTTCTTTTAAATCCATCCCCTTATGCTTACGTTTTT
35		CATAGACAAAGTTAGCATAGCTAGTTAAATCCATCTCATCAATCA
	369501	TGAGTTATTTTTTTATCAAAATTTGCAGGGATTTCCTGACGATTATGAAA
	369551	GATAACTGCAGGTTGGATCAGCTTAGATTCATTAAGCATTTCAACTGCTT
40	369601	TTAAAACACTTGCTGATCAACCTTCTGGAAAGATAATTACAGGTTTTTTA
40		CTAACAGCTTGTAATCGTTTTTTAAAAATATCAATAACACTCATTGTTTT
		ATTAATTTGGTTTAAGAATTTTTTTGAATATCGCTAATACCTACTAACTC
		TTCCCCACCAATTAGTGCTAAAGAAGCACCACCACCAGTGGAGATAAAAC
45		TAAACTGATCAGATAGTTGCATTTGCTTAACTGCTGCAGCTGAATCCCCA
		CCACCAATAACGCTAAAAGCAGTTTTATTTTTAGCAATAATCTCACCGAT
		TTTTGAAGTTCCTTTAGCAAAGTTAGTAAATTCAAAAACTCCAAGGGGAC
50		CGTTTCAAAAGATAGTTTTGGCTGTTTTTAAATAACTTTCAAATAAAGCA
50		ATTGTTTTAGATCCAACATCTAGAGACATATAGGATTGATATTGTTCTTC
	370051	AATTTTGTCACTAACATCTAAAGTAATGCCAGTTTGATCTTTAAATTCAC

	3/0101	AACCCATTACCTGATCAATTGCCAGCACAATCTTATTATGAGTATCTTTA
	370151	${\tt TCCAAGATTTGCTTAGCAACATCAATTAACTCTTTTTCAACTAGGGAATT}$
5	370201	${\tt AGCAGTAGCTTTGCCTTTAGCAAAGGTATTTACCATCCCTCCGCCCTCCGCCCTCCGCCCTCCGCCCTCCGCCCTCCGCCCTCCGCCCTCCGCCCTCCCGCCCTCCGCCCCCC$
	370251	CAATTAAGATATTATCAGCAAGTTTTAGTAAGTTTTCAACTACCTTTAGT
	370301	${\tt TTATCTGATACTTTCGCACCACCCAAAACAACAACAACAAGGGTTTTTGTGGGGTTTTTGTGGGGTTTTTGTGGGGTTTT$
10	370351	${\tt GCTTTGAATTAGGTAAGAGAGGTTCTTTAGTTCTTTTTCCATTAAAAACCCC}$
	370401	${\tt CAATACAGGATTTTGCAACATACTTTGCAATTCCTGCATTAGAAGCATGT}$
	370451	${\tt TTTCTATGGGCAGTACCAAATGCATCATTAACAAAAATTTCCCCTAAACT}$
	370501	${\tt AGCCCAGAATTTCGCTAGTTCAGGATCATTTTACTTTCTAATTTAACAA}$
15	370551	${\tt TTTCTCCTTTATCGTTTACATCACAATAGCGAGTGTTTTCAAGGAGAAGGGAGAAGGGAGAAGGGAGAAGGGAGAAGGGAGA$
	370601	${\tt ATTTCACCGAATGCTAATGCTTGCACTTTTTGTTTAACTTCAGCACCAGT}$
	370651	${\tt GTTTTTACAAGAAATTGAACCTTTACAGTTGGTAAGAGTTGTTGGAGTAGTAGAGTTGTTGGAGTAGAGTTGTT$
20	370701	${\tt ATTCAGCAACCGGCTTTAAAGATTTTTTGTTGTTTAGTTTATCTTCTAAAGATTTTTTTT$
	370751	$\tt CTCTTAATCCTTGAAAGGTGTGATAGTAGCACTATCTTGCAGTTCTTTTT$
	370801	AACTAAGAACTTAATAGTATCCAAACCAGCTAAAATTCTTTCACTATCAC
	370851	TAATAACCCCATTGATCATTGGGACATTAAAATCACTTCTTAAAACAACG
25	370901	${\tt GTTTTGTTTTGAAAATCAATTGCTTGGAGTGTTTTGAAATTAAGCATATT}$
	370951	${\tt AGAGCTTAGCACAATAGCTAACTACTCTCACTAGTTGGTGTACATAGGAA}$
	371001	GATTCATTATCATACCATGCATACACCTTATAAAGTTTCATGCCATCAAC
30	371051	${\tt TTCAACAATATTGGTTAGTTTAGAATCGAAAATTGAACCATATTCAGAACCATATATTCAGAACCATATATTCAGAACCATATATTCAGAACCATATTCAGAACCATATTCAGAACCATATATTCAGAACCATATATTCAGAACCATATATCAGAACCATATATTCAGAACCATATATCAGAACCATATATTCAGAACCATATATTCAGAACCATATATAT$
	371101	TTACCACATCGCTAGATACAATAGGATCTTCACAATATTTAAAAGAAGCG
	371151	${\tt GAAGCAAATCGCTTCATGGCTTGATTTACTTGTTCAACAGATGGACTTTT}$
	371201	TTCAAGTACAACACTTAACTCTACAATAGAACCAGTTAACACTGGAACAC
35	371251	${\tt GGAGTGACATCCCATTAAGTTTGCCATTTGCTTCTGGAACAACAAGCCCA}$
	371301	ATTGCTTTAGCTGCTCCTGTTGTTGTTGGCACAATGTTAACAGCTGCAGC
	371351	ACGAGCACGAAGTCATTATGAGGAGCATCTTGTAAGCGTTGATCTG
4 0	371401	CAGTATATGCATGAACTGTTAGCATCGTTCCATAAACAATCCCAAAGTTC
,,,	371451	${\tt TTTTCAAGTACATGAACTAATGGTGCTAAACAGTTAGTAGTACAGCTAGCT$
	371501	${\tt TGCTGAGATGATCTTATCATCGCTACTAATGGTTTTGTGATTAACATTGT}$
	371551	${\tt AAACAACTGTCCTGATAGTTTTTTTTTTTAGCGGGTGCGGAAATAATTACT}$
45	371601	$\tt CTTTTAGCACCTGCTTTTAAATGGAGAGAGCACCCTCTTCACTTACAAA$
	371651	CCTACCAGTTGATTCAATTACTACATCAATATCATGTTCATCCCAAGGTA
	371701	${\tt AATTTTGGGGATCTTTTTCACTAAAAACATAAACCTTTTTTCTATCAATT}$
5 0	371751	TGCAAGATGTTTTGTTTAACAGTAATCTTTCTTTTCAATTCACCATGAGC
50	371801	TGAATCATATTTCAACAGGTGCGCTAAAACTTCAGGTTGGGTCAAATCAT
	371851	TAATTGCTACAACTTCAACATTTGCCTTACTGAGAAGAGAACGAAAAACA

	371901	${\tt AGTCTTCCAATTCTTCCAAAACCATTGATTGCAACCTTAATGGTTCTATT}$
5	371951	${\tt CTTTGCTGCCATACTTTAATTTAATAATTAGATTTTAATACTTTAGCCTA}$
	372001	${\tt TTGCAATTAATTCTATCTGTCAAAAATACAgCAAATTATTGCTATTAATT}$
	372051	${\tt GCTCTLAAAAAAAATAAAGTTTTGCTTATCAAAATTGAAACTATAATTAGG}$
	372101	${\tt ATTTTCTCAGTAAACTAAATTCCAGTTATTAGCAATTAATAAAATACTAA}$
10	372151	${\tt ATAAAAGTAAACCCACTAATAAAAATACCCCGTTTAATAAGTTGTATTTT}$
,,,	372201	${\tt AAAGGATAATGAGTTCTGTTAGTGTTATTTAAATCATAACCTTTAGCTTG}$
	372251	${\tt TAGAGCAAACGCTGTTGTTTCTGTTTTTTAACTGTTGAAAGTAATACGG}$
	372301	${\tt GAATAAAAAGGGTTTTAATCTTGAAAGGATTTAAAAACGAACACTTGTTA}$
15	372351	TAGATAAAACCTCTAGTAGCTTGAGCTTGTTTAATTCTTATAATTTCACT
	372401	TTTAACAGTTGGGAGTAATTTAAATATAACTGCAAGCAAG
	372451	GTTGAACCTTAATATGAAATAACTTAAGAAACTTAAAAAAACCTCTCAACT
20		GCTCAAGCCAATTCATAGATAGAACTTGAAGTTGTCAGTAAAAAAAGAAGC
	372551	ACTGAAAAGCATACTAATCCTTAATGCAATTACAAAGGATCGTAAAAATG
	372601	AACGTAGATTAAAACTTCACCAGCTAACACCACCAAAATTATTACCACCT
	372651	GAATAGATAAAACTTCCTAAAAAATTATGGTTCTGATCAACGCTTAAAGC
25	372701	AGTATTTGGTAAAAAGATAAAACCGTTAACAATTACATTAAACCACAAGA
	372751	AAAATAACATCCAACTCAAAATAATTAATGCACTTTTAACCCTTTTCTCA
	372801	CTAATTACAACTAGGGTTAAAAAAACTAAGTTAATAATTACAAGACCATA
30		TAATCCTAGCGGTAGAAAAGCAACTAAACTAATTAGTCAAAACCACA
50	372901	ATTTTAGAAGTGGGTCAATTTTGTTTAAAAAACTGGTTTTTTGCATGAAA
	372951	ATAAGTTTTTAGTTCACTAATAAGATCATCAAGGTTTTTAATTTCTGCT
	373001	TGGTTTTTAAAAGCTATTCCCTTTTCATTAAACATCTTAACTGCTTGGAT
35	373051	AATTACTGGAGGGGTGATTCCATATTGCATCAACCAACTGGTGTTTGAAA
	373101	AAAAATCATTAACAGTGGTTTGATGAATTATCTTTCCCTGGTGGAGATGG
		ATGATTTTATCAGCAGTTTCAAAGATAAAATCAACATCATGGCTAACAAT
40		AACAATCCTTGTTTGTTTCATTGCTACTAGCATTTTGCTTAAGTTGC
70	373251	TAATCGCCATTTGATCTAACCCAACAGTAGGTTCATCAAGGATTAAAAAC
		TTAACTTGCATTGCTAACACACTAGCTAATGCCAAACGCTTCTTCTGTCC
		ATCGCTTAATTCAATGGGATTTTTTATTAACGGGATGTTTTCCAATCCAC
45		ATAGATCAAGGTATTTTTTGGCATAATTAACATCTTTTTTATGACAAAGT
		TTAAGGTTCACTGCTCCTGTTAAAACTTCTTCTAAAATAGAATCACAAAA
		AAACTGATCTTCTGCTTTTTGCAAAATATAACCAATTTTTTGCTTAAAGT
50	2	TTTTTGTTATCTTTTGTTGGTATTGGTTTGCAAAATAACAATAATTAGCA
	373601	CAATTTATATAGCCAAAACTAGGTTTTTCAAATAAACCTAACTGTTTTAT
	373651	TAGTGTAGTTTTACCACTACCACTTTCACCAAAAATAACTGTAATTTTAT

373701 TAGGETCTATTACCCCTGAACaACATTTAATGATCTGACCATCATTATGC

	373751	TTATTGACAAAGACACTAATATTGTTAAAAAACAATGGATCTTGTTCAAT
5	373801	$\tt GTTCAGTAATTTGCTATTAAAAAAATGGAATGCTTTTTTTACTGTTTAAAAAAAA$
	373851	AGTAAAAAGGATTAATGATTTTATCAACCTTTTTATAAAAAGAAAACAG
	373901	TTTTTTGAATCTAATTTTGCTAGTTTAAGATTCGCTTTTTGAGCTTGAAC
10	373951	${\tt ATGGTATTTTGTTCAATTAAATCTAGTTTTATTTGAGGTGTTTGCATATTGTGTTTGTT$
	374001	$\tt CCAGTTAACTACATCATTCAAAACTTAAACTTGGTGTTTTTTTT$
	374051	TTATTTGTTTAGCCACCTTATGGGCCAATAAAAGTGGAAAAGGGAGATTA
	374101	${\tt AAGTGGTGGTTATGAAACAAATCAAGCTGCTCATATATCGCTTCAGGAGCCTGCTCAGAGCAGCAGAGCAGAGCAGAGCAGAGCAGAGCAGAGAGCAG$
15	374151	AAACTTTTTAATTAGCGATCCTTTACTTAAAAAGATAATCTCATCTGCTA
	374201	GAAACAGATCATTAAAATCATGGGTAATATTGATAACTATTTTGTTTTGT
	374251	${\tt TTTTTGATGGTATCAAACACAAATTTTTTAAGTTTATTGCTGATCTATTGCTGATCTTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCTATTGCTGATCATTATTGCTGATCATTATTGCTGATCATCATCATCATCATCATCATCATCATCATCATCATCA$
20	374301	ATCAAGCATACTAAATGCCTCATCAAGCAGATAAATTTGTGGTTTGACAC
	374351	CCAATAAACAAGCAAAAACAGCACGTTGTTTTTCACCAAATGAAAGTTTT
	374401	${\tt TTAAGTGGTGTAAATTGTTTATCTTTCAATTCAACAACAGTTAAAACTTCAACAACAACAGTTAAAACTTCAACAACAACAACAACAACAACAACAACAAC$
	374451	ATTAATAATCTTATCCATTTCACTAGCTAAAACTCCATGGTTTTCCAAAG
25	374501	TAAAAATCAATTCCTGGTGGAGTGTATCAGCAAGTAATTGCACATCAGGG
	374551	TCTTGTAATAAGATTCCAATCTTATTAAAACCAACAGAAGTCAACTCCTT
	374601	${\tt ATCATTGAAAAAGATAGTTCCTTTTTTAGCTTTTAGAAATCCGCCAAGGAAGG$
30	374651	${\tt GTTTAACTAGGGTTGATTTACCTGAACCGTTATGACCTATTACTGCTAAL}$
	374701	TGACACCCATCTTGAACATTAAAACTAATCTGATTTAACACATTGTTTTC
	374751	GTGTTTTGGGTATTTAAAACTGAGGTTTTTAACTTGTAGCAAACTAAGCT
	374801	TATTTATAAAATTTTAAAAATAAGTCAGAGCTAAAAATCTGTTTTTTGGTA
35	374851	GATAAAAAACAAAAAAGCAGCTGTTGTGCTGCTCTTTTTTATTTGGAATA
	374901	${\tt TGTTCTATATGAACAGGTTATTTTGCTTGTGGACCTTGTTCACCAGTTGGACCTTGTTCACCAGTTGGACCTTGTTCACCAGTTGGACCAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGGACAGTTGAGAAGTTAAGTTGAAGTAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTAAGTTGAAGTTGAAGTTGAAGTTGAAGTTGAAGTAAGTTGAAGTTGAAGTAAGAAG$
	374951	GTTATATTTTTTGCCATCTCTTCTCTTCACTTCTTAAAGTTTTCAATTT
40	375001	${\tt CCACTTTGAGTTTGGCATAGTCATTAGCTTTAATAGCAGCATCAATGTTAGCAGCAGCATCAATGTTAGCAGCAGCATCAATGTTAGCAGCAGCATCAATGTTAGCAGCAGCATCAATGTTAGCAGCAGCATCAATGTTAGCAGCAGCAGCAGCAGCAGCAGCATCAATGTTAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA$
	375051	$\tt CCTGTTAGCTTTTCTAACTTCTCTTTTTCTTTAGGGAAATTCTTAGCTTAGGGAAATTCTTAGGAGAATTCTTAGGAAATTAGAAATTAGAAATTAGAATTAGAAAATTAGAAAATTAGAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAATTAGAAAAATTAGAAAAAA$
	375101	ATCAGGACTTGCTAATATCTCTTTGATGGTATTAACAATACCTTCCCCTT
	375151	CATTACGTAATTCAATACGTTCACGGATGATGTTATCCCGTTCCTTGTTA
4 5	375201	GCTTCAGCATCACGGATCATCTTTTGGATCTCCTCCTCAGAAAGATTACC
	375251	GTTGTCACTAATGGTAATACTGTTTTCCTTTTGCGTGGTTAAATCCTTAG
	375301	$\tt CTTTAACATTTAAGATCCCATTGGCATCCAAACTAAAGGTAATCTCAATTCA$
50	375351	${\tt TGGGGTTTACCTTTAGGTGCTGGTTGAATACCACCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCTAAGTTAAATCTTCCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCTAAGTTAAATCTTCCACCACCACACACA$
	375401	${\tt TAATGACTTATTATCTCTAGACATTGGTCTTTCCCCTTGACATACAACCAAC$
	375451	${\tt CATCAACTGATTCTTGGTTATCTTGAGCAGTTGAAAAGATTTGACTTTTAGGGGGGGG$

	375501	${\tt CTTACTGGGATAGTTGTATTTCTCTTAATTAAAGGAGTAGCCACCACCACC}$
	375551	${\tt TAAAGTTTCAATAGAAAGGGTTAATGGAGTTACATCTAAAAGTAAAACAT}$
5	375601	$\verb CCTTAACATCACCACGTAAAACCCCCACCTTGAATAGCAGCGCCCAATAGCA \\$
	375651	${\tt ACAACTTCATCAGGATTAATAGAACGGTTTGGTTTTTTACCTGGTACCAT}$
	375701	${\tt TGATTCAACTAGCTTTTGAACTGCAGGCATCCTTGTAGAACCACCAACTA}$
10	375751	${\tt AAAGAATTTCATTAATCTCTTCAGGTTTAATCTTAGCTTCCTTGATAACA}$
	375801	${\tt TCTGAAATAGGGTTTCTTGTTCTTTCAAGTAGTGGTTTTGTTAACTCCTC}$
	375851	${\tt AAACTTAGCACGGGTTAGTTTTAACTCAACGTTAACAGGACCTTTTTGGG}$
	375901	${\tt TAACAGTTAAAAATGGTAGAGAAAATAATCGTTTCAAGTTGAGCGGAAAGT}$
15	375951	${\tt TCAATCTTAGCACGTTCAGCTGCTTCTTTAAGCCGTTGCATTGCCATCTT}$
	376001	${\tt ATCTTTGATAAGTTTAAACCCTGGTGTTCTTTGGCAATGTAGGCTGAGA}$
	376051	TATATTCAATGATCTTGTTATCCCAATCATCACCTCCCAAACGGTTGTCC
20	376101	CCAGCAGTTGCAAGTACTTCAAAAGTACCTTCTGCAATGTCAAGTAAAGA
24	376151	TACATCAAAAGTTCCACCACCCAAGTCATAAACCAAGACTTTCATCTCTC
	376201	TTGATGCTTTATCAATCCCATAAGCTAAAGCAGCAGCAGTTGGTTCGTTA
	376251	ATGATCCTTTCAACATTTAAACCAGCAATCTTACCTGCGGTTTTAGTAGC
25	376301	GTTTCTTTCCGCATCATTAAAGTATGCAGGAACAGTAATAACTGCTCTTG
	376351	AAATCTTTTTACCAATCTTTTTTTCAGCAAAGTCCTTAAGATAACTAAGG
	376401	ATTTGCGCTGAAACTTGTTCAGGACTTAATTCCTTAGTTGTACCATCAGC
30	376451	ATTTTGGACTTTTACTTTATTTGAGGTACCCATCAACCTCTTGATGGAGA
30	376501	CAATGGTATTTGGGTTTGTAACCATCTGTCTTTTAGCAGCATCACCTACT
	376551	ATAATTTCATTGTTTTTATAGGAAACAATGGAAGGTGTTGTTCTTTTACC
	376601	TTCAGGATTTTCTAATACAACAGGTCTCCCACCTTCCATTACAGAAACAC
35	376651	AAGAATTGGTAGTTCCAAGGTCAATGCCAATAATTAAACCATTGTCTGCA
	376701	CTCATACTTTTTTTTAGATCAATAACAATTACTCAGTAATTATAAACAA
		AAATTAGCACTCAAACACTAAAAGTGCTAATTAAAGTTTGTTT
40		CTTTTTTAGTTTCTAAGCTAACAGTGTTAACTGTTTTCAACGGTACATTA
		ACGGTCTTTTTAAATTCCCATATAACTTGAACAATTCACACAACAAAAACA
	376901	AATCCCAGTGAAAATAGCAGGTAGATAAACAGATAAAAGTCTTCATAAAA
	376951	AAACACCATCTTTAATCTGATCATGGAGGAATTGATCAGTTGGTTTGAAT
45		GCATTGAGAAAACTAGTCATCACAAATTGTGTTGCACCTTCCCCACTAGC
		AACTGGAATAAAGTTAGAAGCGGTAACAGCAATATTAGTAATGTTAAAAA
		GATCAATTAAGCTGTATTGATCAATAACGTTATTAGTTGTGTTGACAGTT
50		TTTGTGATCATAAAAACACCAAACAAACTAAAGTAGGAAACAATTGCTAC
JU		AACCATGTTAGCTAGTAATTTAAAGATTGTTAACCCTCACCTTCGCATCT
	377251	CAATTCCATACAACTTATTAAATTCAGCTTTTTCTATAAAACGTTGGTAG

	377301	${\tt ATCTGCTCTTTAGTTAAATAAGGACGTTTAAGTCACTTTCGAAACTGGTT}$
	377351	${\tt TACAAGTGAATAGATCAAAACATGCATCTTTTTATTGAAAGCAATAACAA}$
5	377401	${\tt TAAATAAGATAGCAACAACAACATCAAAGATCATCCCAGTAAGACTTAGT}$
	377451	${\tt CAGTAAGAGACAAAGCTATTATGGTTATTTGCTAACAATTGATAGTTTTT}$
	377501	${\tt AGAAAGAACAAAAAAAAGAAGGTCAAGTTATTAACGCTTGCGATAGATTTC}$
10	377551	${\tt AAAATGCTCCTGTAGAAGTGACAATTAAAACTGCAGTTTGTTT$
	377601	${\tt CCCTTTTTAATGAATCAATACAAGCGAAATGGATCTTGTCCTAGTGATAA}$
	377651	${\tt GGGGGTTACAATTTGAAAAAACTGTACTACAAAACCAAATAATAACCACT}$
	377701	$\tt CTCACCAACTAGCATAAAAACAAAATCTCCTTGATACCCACCAATTAATG$
15	377751	${\tt ATTACATTCCACAAAACTGAAACTAAAAACCCTAAGATAACAACAAATAT}$
	377801	${\tt CCAACCCCAATTCTGATAGTTAATTGCAGTGATAATAGTTTTCACATCAT}$
	377851	${\tt CAACACTAACACCTAAAAAAAAAGATAGTAACAATAACACTAATAACGATT}$
20	377901	${\tt AGAAAAACCAAAAAAAAGCTAAAAGCAACGATGTTTTTAGTGTTAAAAAA}$
	377951	${\tt GGTATTGGTGGTTAACTTTGCCATTACTTAAGCAAGTTTAAGCCTGATTG}$
	378001	${\tt AATTCTTTTATCACCAATCCTAAATTGGGGTTTTTCAATTGCACTTAAAG}$
	378051	${\tt CAAGTTGTTGGGTGCCTGTATCACTAGCTTGAAATAAAACTAAAGCTGCT}$
25	378101	${\tt ACTATATCACTTTCAATATTGGTAGAACTTGTTAAACTAAGTGAATCAAT}$
	378151	${\tt GTCACTTTTAGTGAACTGAAGATAGTTGTAACTATCACCACCAAAGTTAA}$
	378201	${\tt ATTCACTAAATTTTTGGTTGGTTTTGGGTACTTCTTTTTGAAATACTTGGA}$
30	378251	${\tt CTATTTGATGAATTAAAATAACTGGAATATTGGTCTAAAACAGCTAATAA}$
	378301	${\tt CAACGCTTGTTTAGCTTTGAAATCTAAAGCAGAATTGTTAATTGCATCGA}$
	378351	${\tt CCTGAAAATAAGCTGAAAGTGTTTTGCCATTACTACTACTACTACTTGGA}$
	378401	${\tt GTTAGTCTAGCTGTCGGGCAATGTTATCTAAAACTAATTGGTCTTT}$
35	378451	${\tt TGTTTCACTAATAAATTTTTTAAGATCATCCTTTGAACCATATTGTTTTA}$
	378501	${\tt AGGAATTGGCAGCGATATGGTTTAAAAGTGCCTGGTTAGTATTGTTTTCT}$
	378551	${\tt AACATGGAACTGTTAGTTGTATTCAAACCAGTAAAACCATAAGTACCATT}$
40	378601	${\tt ATTACTTGTTGATACTGCTTGTCTGGTGCTTAACATCGTAGTAGCAGGTG}$
,,,	378651	${\tt TAGTGTTAGGACTTGTTTTGGTTTTAAAAAAGAAATTATTAGGATCAATA}$
	378701	${\tt GTTTGGTTGGCATTAGCTGTTGTAGCATGTTCATCATTTTCATAGTTAAA}$
	378751	${\tt AACAGAGCCAAATATTCCCTGAGGATTATTGGTGTTACTGATAATAT}$
45	378801	${\tt TCTTATCATAAGCAATATAGGCAATTTCACCATACTTTAAGTTAGCTTGT}$
	378851	${\tt AAAATATCTTTAAAGTTTTTTAGGTTGTTTTCAATTAACCATTGCAAAGT}$
	378901	${\tt AAAAATGAAGCGATAATGGTCAATAACTGCTTTAAAGTTAACATTAAAAC}$
50	378951	CTGATTCATCAACACTCTCTAAAAAAAGCTTTTTTAAACAATTCATCAATA
50	379001	${\tt TTGCCATTATTAGGATTACCATACATGGCTTATTGGTTAATTTGCTTCA}$
	379051	${\tt TGTCATGTAATAGTAATTGCTAATTACTTTAGCTAAACTATCTGCATCAC}$

	379101	TACTTGATGAAGTTGATGAAGATCCATTTTTAGATTTAATCTCTTCAAAT
	379151	AACTTTTTAGCTTTTTCAAACTGTTGATTGCTAGTAAAAGCATTTTTTAA
5	379201	CAATGCAAAGGAAAGAGGGTTTACAGTTGTTACATCTAACAACGCATTTA
	379251	AACTCCAATTGGCACTGTTAGTAAGTGATTGATCATTGTTAATATCAACT
	379301	AGAATAATGTTGCTAAAGTTAGGTTTTGATTTTCTGTAACTTTCAATTG
10	379351	GTTAACAAATTCTGTTACTTTGTTATTTATGTCGCTCAGAATTTCATCTC
	379401	TTATCTTATCAACATCAGCTTTTGTAGTTTTTAACTTATTGTTGTTTTCA
	379451	${\tt CTAATATTTATTTTTCACTACCTACTTTTTTCCAAAGTGTTTTAGTAAT}$
	379501	TAAAAACAAGAAATAGTTATTGAGTTTTTCATAATGACCAGACTTGCGAA
15	379551	${\tt CATATGGCAAATGGGAAGATAAGCCATTTAACCAAGGGGTTGGATTAATT}$
	379601	${\tt TGGTTAACATTGGTATTAAGTTCAGTTGTTACTTGTTAGTTTATC}$
	379651	TAATGCATCCATTTGTAAAAACAAATCTCTGATTACATTTGTTGCTAATG
20	379701	${\tt CAACTGGTGCAAATTTTTGCATTAGTTCTTTGTAATCATTGAATGCTTTT}$
20	379751	${\tt TGCATCGCATCACCTTTATCTTTTTTTTGAAAATCAGTATTTATT$
	379801	${\tt TGCGTTTACTAATATTAATTCCTGATTTTTTCAAACCAAGTTTTCAGTG}$
	379851	${\tt TTTCATTTAATGGAAAACTAAAGGAATATAAACTGTTTTTAAAGGTGTTT}$
25	379901	GTTTTGGCTTGAAAAGCTCTTCACATTAAAAACTGCTTTTGCTTTTCAAT
	379951	GTCTCTTTCAGTTTTGCTACTACTATTTTTTGTCAGATAATAACTACCTC
	380001	CATCAATTCCAATTACAGCAACTCCCTCTCCGTTTCTAACTAGTCTTAGC
30	380051	TTCAATTGGTTATTAGAGTTATGGCTTGTATTTTGAACAGTAGCATTTGC
30	380101	ACAGTTTGCACTAACAGTGCTAGCACCATTATTTGTTTTTTTATTAGGAA
	380151	TAGCTGCATCCCAAACAAGATAACTGCTTGTTGATGAACTAGCTTTA
	380201	GTTGAAACCATCATATCACTTGTAGTTGTTTGGTGGATTTGCTAG
35		TTTTCCTAAATTGGAACTATCATTAGAACTTATAAAAGCATCTTTAATAA
	380301	GACTCTTTAAATTGTTTTGTGAACTGTCTGTTGTATTGTGTTCACAGAAC
		AATGTATTACTCTTAGTATGGTTTTCAATTTTAGTTGATTCAACAACAAT
40	380401	GGTATTGTTAAGTTCTTTATTAAGCTCTTTAATTGTGGGAAGTTGATCTT
40		TATCTTGATTTAAAAGATCTAGTTTTAAATTTAAACTAGCACCTAAATTA
		GCTGCTTCTAGTTGATCAACAATGTTTAGACTATCTACTATTTGCTTGGT
		TTGAGTGTTATCAGAAAGAGTTGTTGGAAAATCAATCAGGTTGCCTTGAT
45		TTTGATCTAAGATGTATTTTTCTAAACCTGTTTTTTGCTGTATTTAATCCG
		TCTTTTCCCTCAATTAACTGCTCTCAGCGTTTGTTGCCAACATTCTGGTT
		CTGAGGAATTTCCCCATCTTTAGGAAAGAAAGGAAACGCATAAGAAGGGG
50		TTAATTTATCTTTTAGTTTTTCAGTGTTGTAAACTTGACCCAAACCTTG
50		TGTGGTGCTGCATATTTAAAAGTAGCTTGACTGATTAAAGTAGGATCGGT
	380851	ATATTCAACCCAGAGATTAAAGATTTGTGCTTGTAACTTTGCAAACAATC

	380901	${\tt CATCATTAGTTTCACTAAAACGTGGTTCTTGAAAACCAAAGTCCTTTCAT}$
	380951	${\tt TTTTCAGGTTGGGATAGTTCATCATAGATATAAGGACCAGTTGAGAGTTG}$
5	381001	${\tt TCCATTAGGTTTATAAACTAAGAAATCCTTAGCGAATAATTTAGCGGTAA}$
	381051	${\tt AATCACTAATAAGTTGATTGAAAAGTTGTTGGGATTTTCAACTAGCCTCA}$
	381101	$\tt CTGCCACCACTTTTATCTAATAGATCTTGTTGAATAAATA$
10	381151	${\tt TCTGGGTGGTGATATTAACCCATTAACAGTATTTTATATTGATCATCAA}$
	381201	${\tt CATTCTTTTAGTGTCTTTTAAAAACTTGTTTTATGGCTTTGTCTTCATTG}$
	381251	${\tt TTTTCATACCAAGCCTCAAGTGCTTTTAAAAGTGGTCCTATAACAAAATG}$
	381301	${\tt TTTGTTTGCTGAAGGAGTTTTTAAAGCAGTAATAAGTCCTTCTTTTAAAC}$
15	381351	${\tt TACCCTTTTGACCATGAAAAAAATTAGTTGAGGTTGGTGAAAAAACTGTT}$
	381401	${\tt TGCAAAGCACTGTTTGTTGGAGTTGAACAAGCTACAAGTATTGTGCTTAC}$
	381451	${\tt TGACAAACCACAAAGTAAAAACCACCAGAACTTTGATTTTTTAAAAGtT}$
20	381501	${\tt TTTTCATGATCTTGGTTTTTTTTTTATTAATTAAAAGGTTTTGAATCTGTT}$
	381551	${\tt GTTTTTGGTATTTTTGTAGTTAGGTTTAACCTTTTTATATTTAGCTTTG}$
	381601	${\tt ATAGCTTTAATTTCTTAATTTGTAAAGTTGAAAGCGGTTTTTTGGTAGT}$
	381651	${\tt TTTTTGGTTATTTCAGTCAAAAACTTCAAATCACCATTACTAGTTAAAC}$
25	381701	${\tt TAACGTTTTGAAATTTAATTCCTTTTTGCTATTAGTTTATTTA$
	381751	${\tt TGATTTTGGTCATTTCAAAAAAGATATGATCTGCCCCAACTGTTAAGTCG}$
	381801	${\tt TGCTACACGACCAGAACGGTGGATGTAAAAACTATCAATTTTAGGTAGAT}$
30	381851	$\tt CTCAAGAAATCACCACACTGAAATAATTTAAATCTATCCCACGTGAAAAT$
	381901	${\tt AGATCAGAAACAACTAGTAATTTCAATTTATTAGTTGCTTTTGTGAA}$
	381951	${\tt ATTATTTTTACGTTCTTGATAGGTTAAACTACCATAAATTGAACCAAAAC}$
	382001	${\tt TAATATTGTTATTTGAAAGCAATTGTGTTAATTGTTTTAAAGATTTTTGA}$
35	382051	${\tt TTAGAACAGAAAACAATAATTTGCTGATTTTGGTGGTGTTTTAATAAGGC}$
	382101	${\tt TAATAAACCAGAAAAACGGTTTTCAGTATTGAGATGAACAACAAAATGCT}$
	382151	${\tt TAACTAAGGGGTGAATCCATTGCTTTGGATGGAGATTAATAACTTTAGTA}$
4 0	382201	${\tt TTAATTACTTGTTTTTAATTATTTGGAGTTGTTGATTGAATAAAGTAGC}$
	382251	${\tt ACTAAAAAAGGCAAACAAGGGCTTTGCTTTTTGAAAAAGATGAACACATT}$
	382301	${\tt CAAGTCACTGCTGGATTGAACTTTGCTCTAAAAACATGTCAATTTCATCA}$
	382351	${\tt AAAACAACGTATCTAACTTTGCTAGTAAAAAGGTATTTTTCGTTTAGTAA}$
45	382401	${\tt ACTAACAATTAGTTGTGCTTTTGAACTAAATGAAGTGGCAAAAGTAAAGG}$
	382451	${\tt TTTTAAAGTACTTTTGATTTCAGTTAAGATGTTGATAATTTGTCATTGT}$
	382501	${\tt AACTCTTTGGTTGGTACAAAAATAACTGCTTGAGGTTGATCTAAACTGGT}$
50	382551	${\tt GTTAATCTTATCTAATAGAGGTAAAAGATAAGCAAAGGTTTTGCCACTAC}$
	382601	${\tt CAGTTTCAGCAATACCAATGATATTTTGGAATGGTCATAATTTAAAAACT}$
	382651	${\tt GCTTGCTGAATTTTGGTAAATTCAACAATGCGTTTCTTATCTAAAAACTG}$

	382701	${\tt CCTAATAGAAGAGGAAAATTGCATCTTAAACTAGAATTTACGCACTCACT$
	382751	GTGAACTGATTGCTGAAAACAATCTGTTATCACCAACTCTAACTAA
5	382801	${\tt TTTTTGGCATTTGCTATCAATGCATTAATAGCTTGGGTTTGATTATTAGG}$
	382851	${\tt ATTAAGCGCTTCAAGCGCAACTGTACTTAAAAATTCTTCAAGTGAAAGAT}$
	382901	${\tt CAAGTCTTTTGAATTATTTGAATCTGTACTATTCAAACTATCACTACCA}$
10	382951	AGCATACTTACATCTTCAAGGTTAATCTGTTTTGCATAAACTGCATGATA
	383001	${\tt GATCTGGTTATCTTGTAAAAAGTTATAACTGCTATAATTACTGGTTTTAT}$
	383051	${\tt TTGTACCTATATACCCTTCAAACCTACTAAACACATCATTAAAGTTACTA}$
	383101	${\tt TTATTAGTTTTACTTTGAGCTTGTTTTAATTGAACAGTTTGAGTATTGTT}$
15	383151	${\tt AAAGTTTGAATTAGCAAAATTCTTCAAATTAGTTTTTTTGTTCTTGTAAGG}$
	383201	${\tt ATTTGATCTATCAACACCAGTAACGTTAATATTAAGGTTACTTGTTAAA}$
	383251	${\tt TGGTTATAAAGTGCATCAAACTCAGCTTGGGTTGGGATGTTATCAATTGT}$
20	383301	${\tt TTCTATAAGTTTTGTTAGAGAACCAAAACTAAATAAAGCACCTTTGTAAA}$
	383351	${\tt TTGTTTCATTACTACCACTTGATTGAGTAGATTGTAATTGTGCTTGACCA}$
	383401	CCATTAGAACTTGATTTTTCAGATTGGGAAACAAACTTGTAAAGAGGCG
	383451	${\tt ATTTCTAACTGCATCTGGTAAGTTGTTGGATGAAGTGTTGGTAACAATAC}$
25	383501	${\tt CATGGAAACCAAACCTTCTTTGCTGGTTATTGGTTTGCTGTGCACTTTTT}$
	383551	TGCATTAAAGTTAATGATGTACTGCTACCATTGTTCTTTGTATAGTA
	383601	AAGACTTGAAATATCATTTGCAGCACTGTTAACTGTTGGGGTTTTGTTGT
30	383651	${\tt TGGTTCAATTATAAGCACTCGAACCAAATACATAGTTAGGATTTTGTTGT}$
	383701	TCTTGCTTGGTAAAGTCTTGATTAGTTTGAGAAGCAACGTTGTTAGCCAT
	383751	TTTTACTAATACAGATTTAGAAGAACTTACACTCATTGCTTGACTAGCAG
	383801	TATTATTTCTGTCTTTATCACTAGCTAAACTTCAAACCAAGAAACTATTT
35	383851	GTTGTTCTTGATAGTTTAGCTTGCAAGTCCTGTTTTAGGTTTTTAAGGTT
	383901	ATCTTTTAATAGCCATTGAACTGTATAAAGATAAGAATAGTAATTGATTA
	383951	AGTCATTGCTATCCAAGCGTTCTTCTAAGTTTAAGCTGTTGTATAAACTA
4 0	384001	TCTAAAACCCCATTAATTTTGGGTTTATTATCAGTTGAACTTTCATTAAC
	384051	ACCATTACCAAAAATAGAAGGATTAGCTTGTTTTTGAAAAAGATCAAATA
	384101	GGTAGGTATATTTAAAGATATTTCAGTTTTCATTATTGAGACTGTTTCAG
	384151	TTTTTAAAAGTTAATTTATCTAAATCAATCGCTTGTTTAAACTGATCATC
45	384201	ATTGACAAAATAATCTCGTCTAATGGTATTTTGTAACTCATCACTTGATA
	384251	AAACAGCATTTAAAGCTAAATTAAGTGCTAGAGAAGTGTTTCTAGGATCA
	384301	GATGAAAGTTTGGTATCAACAAGGATAATTTGTGAATATTGCGGTGAGGG
50	384351	AATTACCGAAACTTTTAGTTCATCAACATGCTTTTTAACTGCTGCTTCAA
	384401	CTTTCTTTTATTCTCTTTTAACTTGTCAATTATCTTTTTTGAAAAAGGA
	384451	TCACTACTACTATTACTATTACTATTACTATTACTTATTTGAACT

	384501	${\tt AACTTTATCAATGATGTCTTTATAGTAAATACCAAGTTCATTGTAGTGTC}$
	384551	${\tt CTGTTTTACTATCTTGTTCATAAGGTAAAACAGCAGCTAAACCGTTCATC}$
5	384601	${\tt CATATTTGTTTATTTCGCTCATTATCAATGAAAGGTTGGTT$
	384651	${\tt TAGTTTTAAAGCAACTTTGTTTTTCTGCAGTAGCAACTTCATTAAAAACAA}$
	384701	${\tt TTTGTTGATATTGACTTTCAACTAAATCCTTCAACTCGTTTTTAACAGTG}$
10	384751	${\tt ATAATGCTATCACTAAACTTTTTAAACTGAGGGAAACTTAAAAAGTTACT}$
	384801	${\tt TTCTTTGCTGTCTACTAATTTAAAAAGGGCATTAAATAAA$
	384851	${\tt TGTTCTTATCAAAGTGTTTTTTCACTTCATCAAACAACTTAAAGTCATAA}$
	384901	${\tt GTAGTGTTTGTATCAATTAAGCCATATTTGGTTTGTAGTGCACGGAATAA}$
15	384951	${\tt TAAGAATTGTTTTTTTTTTACATCACGTCCTGATTCAGAGAGATAAT}$
	385001	${\tt AACCACCATCAACACCCATTAGATGGATACCATCTTTACCACGTGCT}$
	385051	${\tt AAGATTAAATCAGGTTGACTATTGTLATCTTTTTAAGTTCTTTTAGATC}$
20	385101	${\tt AACGATTGCAGAATTATTACTACTATCACTGTTACTTGTACTAGTAGCAT}$
	385151	${\tt TACTGAACTTTTTTGATATTCACCTTTAAAAACATCTGTTGATTTAGTA}$
	385201	${\tt GTTTCATTTTCTTTAAAGATCTTAGCTAGATCTGTTTTATGAACAGTAGT}$
	385251	${\tt TGTTTGTGAACTACTTGCACTTTTCATTGCAGCCTTAGCTGAATTAT}$
25	385301	${\tt TTTCAACAAAGAAATTTTCAATGATTGATTTATCTTTTTCTAATTTAGTG}$
	385351	${\tt TATTCAGTTTGTACAGCTTTGGATTTTTTTTGTAAAGCTAAATAGCC}$
	385401	$\tt CTGGATAAAAGCTGCTGAAAAGCTAGGATCAAAGGTATCAAACATATCAC$
20	385451	${\tt TAGCTTTTAACAACAATTTACCACCACTATCACTAGAAAACTTATTAGGG}$
30	385501	${\tt ATGTCAATGGTTTATTGTTAGTATTTACATAGCTTTGTAAATTACTAGC}$
	385551	${\tt TAGGATATGAAAACCATTTGCTCCTTTTATGGAGTTATCTTGTTGGTTAT}$
	385601	${\tt ATTTGTTAAATACTTGAAATTGATAGGAAGGGGTTGGAGATTTAATTAGA}$
35	385651	${\tt TCAGGATTAAAATAGTTATCAAACCCATCATTAGGAGTTTCATTAGTAAA}$
	385701	${\tt TACTACTCTTGAAACTAAGTTAGGGTTTTCATTAGTAACGAACTGATCTA}$
	385751	${\tt ATAATTTATCTTGAATGGCAGCATAAACTGCATCATTATTGATCCTAAGT}$
40	385801	$\tt CTTTTATTTATCAACAAACTTAGCTTGTATTTTGATATTATTCCAATT$
40	385851	${\tt ACTTTGGTTTTCAATTAAACCTTTTAATGGAGTTGATAATACGCCAACAC}$
	385901	${\tt TTTTATCAACATATTCAACAAAGTTCTTTGTAAAAAGCTTATTGATAAAA}$
	385951	${\tt TCATCAACAATTTTGTTGTTAACATCACGGAGCTTTCAGTTGGCTTGATT}$
4 5	386001	${\tt TCCACCAGTGTTATCTAAAATATCAGTTTGTAACCTAACTAA$
	386051	${\tt CCCGATACTGATTTCTTAAGTTTTGTTCTTGATTAACAAAACTATTGTCT}$
	386101	${\tt GTATCAGTATTAAAAGLTCTTAAATTTCTCTTAATGTCATCATCAACATT}$
50	386151	${\tt TTCTTCATAAAAATTGCGCAATACTGGCGCTAGGCGCATCGTTAAATATT}$
50	386201	${\tt GCGTTAGTCCTTCTTATTTCAAGTGCTTTATAAAGTGTGGCATTAATA}$
	386251	$\tt CTACCATCATTTTTATCAGTAAAAGCACTACTGGGTCTAAAGAGATTTTC$

	386301	${\tt AATGGTTCTGGAGTTTGGTTGTGCACAGCAACAACAACTTCCCAAAC}$
	386351	${\tt TTACAGCTATGCTTGAAAGCAGCAATGGTCATTTTACTCGGTGTAAAAAA}$
5	386401	${\tt CGTTTCATTGCACAGTCAAAAATTTCAATAATTTTAAAATTTATATTTTT}$
	386451	${\tt ATTATTACCACATGCGACTTGAAATAGAAAACGGGCTTGAATTTGTCAAT}$
	386501	${\tt GATCCTGTGGTAAATGAACTTGGCAAGATCTGTTTTTTCATCCTTTTAC}$
10	386551	${\tt AGGTAATTTAACAAACAAACTTAGTTTCAGAAGTCATTTCAATAGATACA}$
	386601	${\tt GTTTTATGCCATTAACTACCCAGGGCATGGTAATAGTGTTATTAACAAT}$
	386651	${\tt CCAAAGCAACTTGAATTTAGTTACTGATTGGAAATTACAAAACAGTTTTT}$
	386701	${\tt TGATAAACATAACTTAAAGGATGTAATCTTATTTGGTCATTCTATTGGCG}$
15	386751	${\tt GTGGTTTAGCAGTTGCTTTAACTAACTATTTAAGCAGTGATCAATATAAA}$
	386801	${\tt GCAGTCTTGTTAGAAGCACCATTAAATCCTGCTATTGTTGAAACTCCTTT}$
	386851	AAATATTGTTCAAAATCTCATTCCTGATCCTGATAGTGATTTTGCTGTTA
20	386901	${\tt TTCAAAAGTGTCTTGTTTACAATATTGAGAAAAACTTGGGGCAAACTTT}$
	386951	AAAGAATATTGTGAAAGAGAAAAGCAAAAATCAATTCACCAAAACCAACG
	387001	CCTTAAAGTGATGTTAGAACCTTCTACACTCAAACAAAACATAGTTTTAA
	387051	TCAATGCAGCTTTTTTAAAGTTAAATTGTCCTGCTTTGTGAATCCATGGT
25	387101	AAGCAGGATGGAATTATTAAGTACCTTCCATCCAAGGCTTATTATGAATC
	387151	ATTAAACAATAAGCAAATTCAATTTAAAGCCATAGAAGCAGCGGCTCATA
	387201	CCCCTTACTTTGAACAACCACAAAAGLTTTTAAGTTTAGTTAATGATTTC
30	387251	TTTCAATTAATAAGTTAAAGCAGTTTATTTAACTAAACGCTTGTATCACT
	387301	CAACAACGTAAGATTCATTTATTCCAGCAGGTAGTTCGCTACGCTCTGGG
	387351	AATCTTATATAAGTACCTTCAAATGCCTTTTTGTTGGTTTCCACAAATGA
	387401	TGAGATAACACTGTTTTCAATAAAATTTTTAACTAATGGGGATTTAGTTA
35	387451	TTCTTGCTTTTAAACGGACTTTATCCCCGGGATTAATGATGATGAAGGG
	387501	GTGTCAACAGTTTGATCATTTAAAATCACATGACCGTGGTTTACCATTTG
	387551	TCTTGCACTCTTTCTTGTTGGTGCAAAACCCATTCTGTAAACTATGTTAT
40	387601	CCAAACGTGATTCTAAAACTCTAAATAAATTAACTGTTAAGTTACCTTTT
70	387651	TGTTTTAAAACAAAGCGAAATAACCTACGAAATTGTTTATCAGTAATACC
	387701	ATACATGTATTGCATCCTTTGTTTTTCTTGGAGTTGTTGGGCATAACCTG
	387751	ATAAAGTTGAGGAACGAAACCTATTTCCATGTTGACCGGGAATAGATTTA
45	387801	CGTTTTTTCCTTTGGAAAACTCTTTGTTGTTTTCAAGTAAAGAAAAACC
	387851	TAAACGTCTTGATCGTTTGAAAATACTACCAGTATATTTCATGTGTTTTC
	387901	GATTTTAAATTATCTTAATAATCAAGGCTAAAATCACCACTGCTTTCAAA
50	387951	TAAGTCTTCATCTAATAATGAACTGAAATTGGAAGTACGATCAGGAACTA
50	388001	GTGTTTCTATATCCAAATCATTAACACTAAAAGCACTCATTGAATCCATT
	388051	ACTTTGGCATCAATGTCAACAAAATCATTGTTAAAACCTTCAAATTCAAA

5	200101	Alcoardinacoardinicationiana carcinacionica
	388151	TGGAGATGTTATCAAAAGTGTTGGAAAAATCTATTAAATCATCCATTAA
	388201	TGATTAGGTTCTACTAACCCATTATCTGTTACACTATCAAAATTGCTTA
	388251	AAGTAAAGGATCTTTTCTTTCTTTGCAAAGCGGAGCGTATTATCAAGC
	388301	TATTAATGTTGTTCATAATAGTTTCACAACAAGAGTTATAAACAGTTTT
10	388351	AGTTGTTTTAAACTACCTTGAATGCTTTCTATCTTCTTTTCATTTTCAG
	388401	GATAGCACGTTGAACATGACGCATAATTTCTCCAGATTTTTGCAGTTGT
	388451	CATAACTATTACTTGGTTTGTAAGCAATAGCAAAATCACTAGCTAATGA
	388501	CTGATCATTTCTTCTTTTTGAAGTGTTGTTAGATTCTTAGCGTTATTAAA
15	388551	TTGAACGTTAAGGTTCTCATTTTGATCAATTAAACGGGAAAGTTCACTT
	388601	GTAATTCCTTTTTAATTATTAAGTAACGLTCACTAATTTGGTTCTTATAC
	388651	TTGGTAACAAATCATTGAGATGGATAAATGATTGTTTAACAGACATCTC
20	388701	ATAATCATTCATTTGAAAGATTGCATCAAAGTTAATTGTAGGGTTTAATT
•	388751	CACCACGTTTCAATTCACTAATAATCTTGTAAAGATCTGATTTTTTATTC
	388801	AAATTATCAAGTTCACTTTTATCTTCAACCGATTGCTTATTTTGAGTAAT
	388851	TGAGTGTTCTTCAACAGGTTCTTTTGCTTTGACAAAAACTTCAATTTTAC
25	388901	GTTGTTGGTCTTCGCTATTAACAGTATTGATAGTTAGTTGATCATCTTTT
	388951	TTATCGAGTCTTACTGATTCACTAGTAACAATTGATTGAT
	389001	${\tt ATTAATTTGTTGCAATTGGACAGATAATGTTTTTGCAAGTGTTTTTGGAATTGTAATGTTTTTGGAATTGTAATGTTTTTT$
30	389051	$\tt CTTCAGTTATGGAATTAATGGTAATTTGTTCTTGCTGACTTTCTTT$
	389101	TCTAAAGCTAAAGTTTCAACTGGTTTATATTCAATACGGTTGGATACAAA
	389151	${\tt ACTAATAGGTAAAGTTGTAGGGATTTGGGGTGAACTTTTTTGGTAGTGAGTG$
	389201	TAGTTATCTTATTATCAGACTGAATATCAAATTTCTGTAAATTATTAGTG
35	389251	TAGTTACTAGTTTCAACTACATCTTGTTTATTGAAACTACTTTCTAAAAC
	389301	$\tt TGGCTCCTTAGTTATTTCAGGTTTGAATTGATCGTTAACTTCGCTATTTAGTGGTTGATTGA$
	389351	CTTGATCAAACTGCTCAACTGTTGGTTGAGTTTCAAATGAAGAAGAAAAA
10	389401	GTTGTTTGGTCTTGTTGATCTGTATCAATTGGTAACTATCAAC
	389451	TACTTGGGCTTGTTTACTTTCAAAATCAGTAGTTACTTCTTTTTCAGCAG
	389501	${\tt TTGGTTGTATTTCCTCATTATTATCAAGATTAGCTTGAACTTGATCAAAT}$
	389551	CCAACTTGATAATTATTTTGTTCTTCAGCAACTGGTTTGAGCTCTTCATG
5	389601	$\tt GTGATCAAAGTTGTACTGAACATGATCATCTAAAGAAGGTTGGTCAAGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGTGGTCAAGGGGGGGG$
	389651	${\tt TTGGTTGAGGTAAATCACTGTCAAAGCTGTAGCTATCAGTTGTTGATTGA$
ro	389701	GGTTGTTTTGCAAAATGATCATCTGAAGAAGGCTGGTCAACAACTGATTC
	389751	${\tt AGGTTGTTTTACTTCTGGTGGTAGGTCGTTATCAAAACCATAGTTTTCATCATCATCATCATCATCATCATCATCATCATCAT$
	389801	CAGTTGGTTGTTTTGCAAAATAATCATCTGAAGAAGGCTGGTCAAGAGTT
	389851	GGTTTTAGCTCTTCATTTTGATAAATGTCGTATTGAACTTGATCAACTGG

	389901	TTCAGATTGACTTTCAAAGTGTGCATCAGGTGCAGCTTCACTATTAAACT
	389951	TAACAGGTTCAGACTCTAACGAATTATTGCTGTTTGATTGA
5	390001	CTCCCAAATTTATAGTCATGAATTGGTTCAGATTTACTTTCATAATGCAC
	390051	ATCATCAGATGCAGTTTCACTATTACTATTAAGTTGAATGAA
	390101	TTAATGAATCATTGTTAGTTGCATCTTTGTTGTTTTCAGAGTAAAGATTA
10	390151	GATTCAGAATTTAAGTCACTAGTTTCAACTACATCTTGTTTATTGAAACT
,-	390201	ACTTTCTAAAACTGGCTCCTTAGTTATTTCAGGTTTGAATTGATCGTTAA
	390251	$\verb CTTCGCTATTTACTTGATCAAACTGCTCAACTGTTGGTTG$
	390301	GAAGAAGAAAAGTTGTTTGGTCTTGTTGATCTGTATCAATTGGTAATTG
15	390351	GTAACTATCAACTACTTGGGCTTGTTTACTTTCAAAATCAGTAGTTACTT
	390401	TTTTTCAGCAGTTGGTTGTATTTCCTCATTATTATCAAGATTAGCTTGA
	390451	ACTTGATCAAATCCAACTTGATAATTATTTTGTTCTTCAGCAACTGGTTT
20	390501	GAGCTCTTCATGGTGATCAAAGTTGTACTGAACATGATCATCTAAAGAAG
20	390551	GTTGGTCAAGGGTTGGTTGAGGTAAATCACTGTCAAAGCTGTAGCTATCA
	390601	GTTGTTGATTCAGGTTGTTTTGCAAAATGATCATCTGAAGAAGGTTGGTC
	390651	${\tt AACAACTGATTCAGGTTGTTTTACTTCTGGTGGTAGGTCGTTATCAAAACCCCCCCC$
25	390701	${\tt CATAGTTTCATCAGTTGGTTGTTTTGCAAAATAATCATCTGAAGAAGGGCC}$
	390751	TGGTCAACAACTGATTCAGGTTGTTTTACTTCTGGTGGTAGGTCGTTATC
	390801	AAAACCATAGTTATCTTCAACTGATTCAGGTTGTTTTACTTCTGGTGGTA
20	390851	AATCGTTATCAAAACCATAGTTATCTTCAACTGATTCAGGTTGTTTTACT
30	390901	TCTGGTGGTAAATCACTGTCAAAACCATAGTTTTCATCAGTTGGTTG
	390951	TTCTTTAGTGGAGATCCACTGGTCATTTTCAAAGTAACCAGATCAAACCC
	391001	ACTCACCATTTCATCATAAGAACCATAGTCAGGGTTACCAACATACTTT
35	391051	AAATAATCATTCTCTTCTTGCTTTTCATCAAAAACAAACGGATTCCCATT
	391101	TTCATCAAAGAGTTGGGAGATATCATATTCAGTATCTCCATAAGGATCAT
	391151	AGTAAACCCCTGTTTCTTTGTTAAAAGCTATATAATAGCCATTACCATCA
40	391201	GCATCATATGCTACCTTAATATTAGGGTCTTCTTCAACAGTGGATTTACC
40	391251	ATCATAAAGATCACCAAAAATGTTTTCAGGTTCGGTTTGGGTATAGTTTT
	391301	TTTCTTCAAAAACCGATTGCTTGTTTTTAGCCATCAAGAAAAGTTATTTA
	391351	TGCCAGTTTAGTCAAGCTTGATTATAAAACTTATCGCTTCGCTCTAACTC
4 5	391401	TTCCATGAAAGCGTAAATAGTAATAAATAATTTTTTAAATTATTTTCCAC
	391451	AATCCCTATTAAAGGGTAAAACAAAGCTACATAGATAGGTAATAATAACG
	391501	CTTGCACCAATACTCTTGGTAAAAGAAAGAAATAAACCCCATACAAAACA
50	391551	AAGTTATTACTTGGTCTGCCATTATTAATAAAAGTAATAAACTCAATGGC
50	391601	AGCAATTGTCCCCAAAAGGATAGAAACAACTACTGACATTAAAACCATTA
	391651	GAACCAAGCTATAAATAGTTAAAAGTGCTTGTTCTTTATTTCTCTTTTTT

	391701	${\tt ACATAAACAAACCCTAAAAATCCTTCTGTTACTAAAAAGAAAATAACAAA}$
_	391751	${\tt GCTAACTAAAGTTATGATTTGTAAAACAACAACATTAACACTAAGATCAG}$
5	391801	${\tt CAGTTTGAAAATTTTTTGTTCCAATTTGCTGAAACTCATTATTAGTTAG$
	391851	${\tt TAAAGTAAAAGCAGTGTLACACTAACAACAAAAAAGTTACTAATAGTGT}$
	391901	$\tt TTGTAACACCCAAAAATCAACCTTGTAATTACTGGCATTTTTTCTAACTA$
10	391951	${\tt GATAAATCCCTTTAACTATGCCAGCAAGaAAAGCAAAGAGTGGCTTTTGC}$
	392001	${\tt AATGCAAAACCACACACATAACCCTTTGTTAACCAATCAAT$
	392051	${\tt ATCAGATAAAAATCCAAAAATAAAACCCCAAATAGGACCAAAGATCCATC}$
	392101	$\tt CGAACAATGCAAAGGGAATCCTTAGAAAACTAATGCTTAATACATTAGTA$
15	392151	${\tt ACACTAATTGAAAAGATAGAAAAGATAAAGGTTAGTGCTAATAAAACACT}$
	392201	${\tt AGCTCAAACTAACAGTTGTAAACTCTTTAAAAGTCTCAACGGATAGTAAG}$
	392251	${\tt GAAACAAAAGTTTCAAAACAGTTTTTTAGATTGAAGCTTGAATGTGAAT}$
20	392301	${\tt TTTAACCAAAAATAGTAGGTGGGGGGATATCTAAAGTAGTTTTACTTTCA}$
	392351	${\tt TCACTAGTAATTGGTTTTGCCAATTCCTCTTGAAAGTACTTATTAAATAT}$
	392401	$\tt CTCATTAGTTTGTTCTAAGTTTAATTTAGGACTTAATGAAAAAGCAATTA$
	392451	${\tt CACTAATGATGCTAAAAGGAACAATGCTAAAAACAAACAA$
25	392501	${\tt CCTATCAGATAACTTGCAAATAATGGTGAAACACTAATTAGTTGGTTTTC}$
	392551	${\tt ACTAAATAAGCGGATGATTAAAGCTGCATTTCAAAAGCCACTTCTTACTA}$
	392601	${\tt TATTACCAGGGATACAATTTAAAAAGACAAAGATAAAGATAGTCCAAAAG}$
30	392651	${\tt ATCCATTTATTCTTACCTTATAACGGTAGTTATCATTAATTTTGGGAAA}$
	392701	$\tt CTCTTTGACCCCAAATTCACTACGTAAATACCGCATTGCTCTATTGGTTT$
	392751	${\tt GACCTCTAGTTGCAAAGCTATAGGGTTTACCCTGAAAAGCAAAGAAAAAA}$
	392801	${\tt GAAGCACCACAAAAGCCAGGAAGATCATGGTAATCAAGTTAGATGAACT}$
35	392851	${\tt TAAAGCAAAAAAGCGGTTTAGATTTGTTGTATCTGCATTACTTTGCTGAA}$
	392901	${\tt CAGTATTTTGGTCATTATTAACATTGAAAAGTGGACTGTTCTTATCAACA}$
	392951	${\tt AAGTGGGTAAAAAAGACATTGACCATCACAACGTATGCTATCGAAATGAA}$
40	393001	${\tt AAAGATGGCAATCATAGAGATGAAAATCGCTAGTTGTGCTCATTTAATCC}$
	393051	ACTGACTCTTAAACTGAAACTCAAAGATCTTACCAACTAGTTTTTCAGAG
	393101	${\tt GTAAACCTACCAAAGGCACGATCTCTGGCACGAACTTGGAGGGTTTGTTG}$
	393151	${\tt CAAAATATTATTCTCAAGTCCTGAGTTTAGCTGTTGAGAATTGTTTATAG}$
4 5	393201	${\tt TTTGAAAACTTGGGTTATCTTTAACTGTTTTATTGTTTTCTTGTAACTCA}$
	393251	$\tt CTAACGGGTTTAACTTGAGTTTCAGCAAGTTTGGTAAAGCTATTCAACTC$
	393301	${\tt TTTATTAAACAAGTTTTTAACAGCAACATTAAGATAATTAGCTAAATCTA}$
50	393351	${\tt ACGCATCAGTTAGATCAAACTTAGCAGCTTTAAGTTCTTTTTCACTTAAT}$
	393401	${\tt TGGTTTTGCCCTAATTGGATAAACTTATCATGAAAACTACCAAAAAGAAA}$
	393451	${\tt GTGGTCTGGTTTTTTGTTTTAACTCTTTTTTGTTTTTCCTCTAAAAAAT}$

	393501	AAAGTAATTTGAGTTGTGCCAAAATTGTTTTGGCAAAATCACTATCAGTT
	393551	TTTATCCTTGTTCTTAAAGTTTCGTTATTAAAAACAATGTCAAGATTATT
5	393601	${\tt TTGTACCTTAGTTAGAATTTCACTAAACGTCATTTTGATAAGTAATTTTA}$
	393651	GAGAGGTTAGTTAGAAAAAGCTTAAAGCAAAGTTTTTTAACAACGGAA
	393701	${\tt TGGCAAAGCCATCATTGTGCTTTAATTTAATATCCAATTTTTGAATTGCA}$
10	393751	${\tt TTAATTATTTACTAAAACTTTGCTAGTAAAGTTATGGTACTGACTTTG}$
70	393801	${\tt AATAGCAATTAAGCGAAACTGATTAACATTTAGATTAATGTTAGTTA$
	393851	${\tt GCTTTGGATTACAACTTTTAACCATCAATGCTAATAACAACTCCCCACTA}$
	393901	${\tt AAAAATTCTAAAAATTGGGTGGCAAAATTTGGTTTTGTACTTGCCAATTC}$
15	393951	${\tt ATCAATATTTAAATGCCTTTACAATTTGTGAATTTGTTAGAGCTTTGG}$
	394001	${\tt TTAATTTGTAAATTTGAACAGGTTGATAATCACAAATAACTGTTTCAACT}$
	394051	${\tt AATTTGTTATCTTTGATTTCATTTTTACCTAACAAGCTAAGTTTGTTAAT}$
20		${\tt TTCTTGGTAAATTACCCCCATATTTAAAGGTAAAGCATTCGCTAATCAAT}$
20		CAATTATTTCCAAATCAAGTTTTAAGTTAAGTTCTCTACAAACTTCACCA
		ATTGCTTTATGCATTGATTTTCAATCCAATTTATCACAAAAAACAGTTGT
		GATTGATTTAATGGTTTTAATCCCACTAAAAGGATTGTCAGTATAAACAG
25		TTAAAACTACATCAGTTGTTTTTAGTTTTTCTAAACACAAGTTTTCTTGT
		CTAGTTAAGCTTGTTTTTTCCAAAAAACTGCAATTATTGACAATAAACTT
		TTCATTATTAGAACCAAATAATGGTTGTGAAAAGAGATCATAAAGTTGCT
30	-	TAAGATCTTTAAACCAAATAGTTTTATATGGAGAATTGCTTTTGATTTGA
30		CTTAATTTTTGGTGAATTAGCCCAATATCTTGACCATAAATTATTGTCAT
		AATAAGCTACTGTAAAAATAGTATATAAAAGTCCCAATAAGCCATAATAA
		ACAAAAAAGAAAATCAGATTAGGTTTAGGTATTTGTAGAAAAACTGTTAC
35		TTTTAATGATCATTCACTTAGCATTTTAAGTGGGAGATAAATACCAAAAC
		TAGCTTGACCAAAAACACCAATAAAGGGTAAAATAATTCAACTAACACAA
		AAATAAAATAAGGCAATTGGGCTAAACAAAAGGTTAAACAAGACACTAAA
40		AGCATTTAGTCTTGAATTTAAATACAAGCTTAAGGGGCTGATAACAATCA
40		AGATTAAACTAGAACTGACAAGCGGTTTTAAAGCTTTTAATAACTTTAGT
		TTGTTGACAAATAACAATACAAAACAAGCTAGAAAAGAAAAATTAAAACC
		AAAGTTATTTAAAGCATGGTTACTAATAAGAATGATTAAAAAGTGCAGTTA
45		AACTTAAGTTATCTTCTGGTAACTGTTTTTTAAAAACCTGTTTTTAACAGT
		GTTGAGATAAAAACTCTTAGTGCTGaAAAGGCAAATCCTACTAAAAACAG
		GTAAATCAATAAAACAGCAAAACCACTAAGTTTGTTTAAGTACCATCTTT
50		TTCATAAAAACCGTTCCATTAAATTAAACAAGAAACTTAAGTGAAAACCA
55		CTGATAACAAACAAATGGACAATGTTTAGTTTTAAAGCATTTTGGTACAA
	395251	L ATTGTTTTTAGTGGTTTCATTAATTAAAAATAGTTTTAAATACTGATTTA

	393301	ACTORCOTTINOTOGIC TONICANT TONICINATIONAL MADDANIA
	395351	${\tt AAGTTATTTTAACAATTTGATTTATCTTGACTGCTGGAACAAAATAACA}$
5	395401	${\tt AAAAGCAATAAAAAAACCAACAATTGTTAAGTTCAATAAACAAAACTTTC}$
	395451	${\tt AGTCATACCAAAGACTAAAAAGCGTTATCAAAATGATCCAAATTGACAGT}$
	395501	${\tt GCAACAAACTGTTCTTGTTGTACTAAAAAGAAGCCTGGGATAAAACTGAG}$
10	395551	${\tt TAAAACAAAAAAAAAAACAGCTTTGTTTGCATGCTGTTTTATTAATAGA}$
	395601	${\tt TTTATTTTGAACTTTTTAACAAATTAAAAGtCCTTAGATCAATATGATCT}$
	395651	${\tt TGATGGATAACGTCTAAGTCCATCATAGCTAGAACTAAATGGTAAACTAG}$
	395701	${\tt TTCTTCTAAAACTTGATAGTCTTGTTGGTGAATGGAATG$
15	395751	${\tt GAACTGATATTAGTTAATCTTCATGGTCTTCTTGTTAAGGGATAATAACT}$
	395801	${\tt ACTTGGTGTTCTGCTAAAACGATAGTTAGAAATAGCATTATTTTGGAAAT}$
	395851	${\tt TAGTTGATCTTAATGGTGTGTAATTGTTGACTCTAGATTTTGGTGTGTAG}$
20	395901	${\tt TCAAAATCAAGAGAAAAACGATCACTAGTTAAACTTTGATTGGTATCGCT}$
	395951	${\tt GTAAAGTGGATCACTGTATTTAGTTGCAACATACTCATTTTCAGGATAAA}$
	396001	${\tt AACGGCTGAAATTGCTACTTTTATAGTGTTATCACTCTTTAGAGCAATA}$
	396051	${\tt TCACTCATTATCCTTTGGTGGTTTAAAGCATTAATTTTCTCTAGAAGAGA}$
25	396101	${\tt AGCGTGGGAAGAGACACTAACAGTGATATCTGAATCAGTTGTGCGTTCAA}$
	396151	${\tt CTTGTCTAGGTTGAAAACCAGTGTCTAATTTTGATTGAAGTAAAGCTGCT}$
	396201	${\tt GATCTTGGTACAACTTTAATTTGTAAACCTGAAGTTGGCAATGGTTGTTG}$
30	396251	${\tt GGGTTGATATTCAGTTTTTACTTCTGGTTTTCAGTGGTGAACTTCAACTT}$
	396301	${\tt GAGGAGTTGATTCTACTTGAGGGATGTATTTTGTTTCAGGTTTTGGTTCA}$
	396351	${\tt ATTCTTGGTTCAACCATTTGAGCTTTCGGTTGAACTTCAACTTGAGGAAT}$
	396401	${\tt ATGTTTATTACTTCTGGTTTTGATTCAATTCTTGGTTCAATCCTTTGAG}$
35	396451	${\tt GTTTTAAATCAACAACAGGTTTTGGTTGAACTTCAACATGTGGTACATGT}$
	396501	${\tt TTTACTTCAGGTTGTTTAACTTCTGGTACTGAATCAACAACAGGTTTCAC}$
	396551	${\tt TTCTGGTTTGATTTCAACATGTGATACATGTTTCACTTCTGGTT}$
40	396601	${\tt TTGGTTCAATTTTGGGTTCAACTATTTGAGGTTTCGGTTGAACTTCAACT}$
	396651	${\tt TGAGGAATATGTTTACTTCAGGTTGAACTAACTTTGCTGGTTTATTAAC}$
	396701	${\tt TAGTGGTGGTTTTAAAGAAGGGGGAATTATTAAAACTATGGTTTTGAGATC}$
	396751	${\tt CACTATCAACTTGAACGGGTTGTTGGTGGACTAAATCCTGATGGAGCTGT}$
45	396801	${\tt TGAGTAGGTGGCACTTCTTTTCAACAAACTGGTCATCACCCAAGTTTTC}$
	396851	${\tt TGTAGGTTGTTGGGGTTGATTTAAACTGTCATTTAATTCAAAGACATCAG}$
	396901	${\tt GTTCACTTTCAGTTTCTAGAGTAGTGTTGTTGAGCTGCTTTTGGTTGG$
5 0	396951	${\tt TCAACTTCTATCTTAGGAAGACCTGCATCAATACTAGGATAATCTTGTTG}$
50	397001	${\tt GGTTGGTTGTTCTTGAGAAGTTTGAGTACTGCTTAAATAGTTAATTAA$
	397051	${\tt GGACCTTTTTCTCATCAGTATAGCTAGAAACATCCAAAACATTACCATTT}$

	39	7101 T	GGTCATAGAAAGTGTTGTTATCCTGATCATATTGAACAGTTACCAAGTT
			TTCTTATCATCATAAGCATTTAAGCTAACAATGTTATTTGTAAAGCTAA
5			PAGGGTTATCTGAAGTTAATTCAAACAAAGGATAGTTACTAGCTAACTGC
	39	7251 1	TTTCTTTTTTCTAAAGAGAAGATATTACCTGATTCAGGATCTTGGTATAG
			AGCATGAACCTTATTTTTATGATCACGGGCATAAACAACACTAACATCAG
1	₀ 39	7351	SATATCTTTTGTTAATCTTTTTTAAAAGCTTGTTATAGGCTTTGTTTATT
	39	7401 7	TTAGCTTTCTGTTTATCGTTCATAAAAAATTACTAAATTAGGGTTTTAAA
	39	7451	CCGCCTTTTGGCATCAATTGTGATGGGTTAGGACGTTGTTGCATATTTGG
	39	7501 7	ATTAAACCCAGGGCGTTGTTGCATGTTTGGATTAAAGTTATTTGGTTGTG
1	5 39	7551 (CAAATTGGTTAGGATGGGGTTGGTTAAATCCAGGGCGTTGCATGTTTGGG
	39	7601	TTCATCCTTGGGTTGAAATTATTGTGTGGTTGGAACTGTTGGTTTGGTTG
	39	7651 (GTTAAAACCAGGGCGTTGTTGCATGTTTGGATTAAACCCAGGGCGCTGCA
,	39	7701	TGTTTGGGTTCATCCTTGGGTTGAAATTATTGTGTGGTTGGAACTGTTGG
-	39	7751	TTTGGTTGGTTAAAACCAGGGCGTTGTTGCATGTTTGGATTAAATGCAGG
	39	7801 7	TCTTAAAAGCGGAACACGCTGTTGAAACTGTGGTTGAAGGGGTTGTTGAA
	39	7851	CTTGGGGTTGGGAAGGCTGAGCTTGGGATTGTTGAGGATCAATTTCAACT
2	25 39	7901	GTTTGTTGTTGTTGATCTGAGATTCTTTGTAATTGCTCAGCAATCTG
	39	7951 '	TTCTTGGCGTTCCTTCTCTAAGTAAACGTTTTTCTTTGCGCTTTACAA
	39	8001 '	TAGGTAAACCTATCGCAAGTCCAAGGATAATAGCTAAAAGCACTAAAACCA
		8051 .	AATGAACCTGCTACTGTAGGGATAAATCAGGGCTGTTCAACAATTGATCT
•	3 <i>0</i> 3 9	8101	GCCCTGAATTACAGTTGTATTATCTTCTGTTTGATGAAAAACAACCCCTA
	39	98151	GTTCACTACCATTAGTTTTCACAACAAGTGCAAATGCTAGTAACGATAAA
	39	98201	CTAACAATTAGGATTGTTGTAAAAAGTAAAGCAAGAACTATAAAAAGTTT
	35 39	98251	TTTGTATCTCAAAAATCCATTTAACTCCATCTTTATCAAAACTTAATTAG
	39	98301	TTCCTTTTTCTTCTTGATCTTGAATCATCATAATACTCTTCTTGTTCTTG
	39	98351	CTTTTTCATGTTCCTTTTTCTTCTTTTAATTGAACGAGTGATTTTATTGA
	39	98401	GAAAGAAGTTAACAATTAAAGTACCTATTAAACCACTAACAAATGCCATT
	40 3.9	98451	CCTAGGGGAATTACATACTTAGTTAGATAAGGTGTAAACTGTTCAACAAA
	39	98501	TCCAGGCAACTTAGCATTTTTCAAAAAATCTACATATCCTGGGATAGCAT
	39	98551	AAAATGCACTTTTTTCAGTTGGAAAACGGTTATCCAAACCATTACTTGAA
45	45 35	98601	CCTTCTAAAAGTTGTAATAAGCTACTTGTTTGAGCAGTTGCAGTTGCACC
	3:	98651	ATTGTTTGAAGAGATGTTATCCAACGCTTCTTTTGAAAAGAACCTGTTGA
	3:	98701	${\tt AAACATCCATTGGTTGTGCTAACTCAAATGGGTTTAGAGAACCAAAGTAAGT$
50		98751	AAGATAGCTAAGAAAAGATAAGCAAAGCCTACCAATACCAATAAAAGAAA
	33	98801	GCAAAGCTTAAAGAGAAATCGAAACAAGCGCATTTGTATTAGTCAAAAAT
	3	98851	AAAACTACTCTGTGAATTTTAACTTTATTTAGTTAAGCAAATGGTTTATC

5	398901	TAMITAMITAMETATADAGETTTAGAAGETETAAACTETAGAAG
	398951	${\tt AATTTTAGTAATTAGGATGATTCTTAGGATGAAATAGACCAAATTCATCATCATCATCATCATCATCATCATCATCA$
	399001	AAGCTGCTAATTAATCAAGCCCCAAAGAATAAAGCAGATCTTCAGCTCTC
	399051	TCTTCTTGCCATTTCATAATCTTCACTTTCATAGTATTTAATCAAATCTT
	399101	${\tt GTTCATTACGGATCTGTAAACTCACAAAATAAACTGAAATTAATGAAAACTGAAAATTAATGAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAATTAATGAAAAACTGAAAAACTGAAAATTAATGAAAAACTGAAAAATTAATGAAAAACTGAAAAATTAATGAAAAACTGAAAAATTAATGAAAAACTGAAAAACTGAAAATTAATGAAAAACTGAAAAACTGAAAATTAATGAAAAACTGAAAAACTGAAAAACTGAAAAATTAATGAAAAACTGAAAAACTGAAAAATTAATGAAAAACTGAAAAAACTGAAAAATTAAATGAAAAACTGAAAAAACTGAAAAAACTGAAAAAACTGAAAAAAAA$
10	399151	ATTCCCCCTACTATTAAAGATAAGCCAGGGATAATTCTATCAAGTAGGTT
	399201	TGTTGTAGAAGCAAACACTGTAAAGTTCAAAATAAAGCTCAATAAGCTCC
	399251	$\tt CTACAATACTAATTACAAAAGCCCATAATAAGATGTGaAACAAAGTTTGCAAACAAAGTTTGCAAACAAAGTTTGCAAACAAA$
	399301	${\tt GTTTGTTGATATCGCCTTTTTTGACTTGGTAGCGCACTTAATCCTCACACCCCCCCC$
15	399351	TGAACCAAACACCAAACTAGCACCTAAAAAAAGCATAAACAATGTCATTAG
	399401	$\tt CTTCAAAGTTAACTTGTTTTGAAAATGTCGTTGCTAAAGTTAATAAGATCGTTGCTAAAGTTAATAAAGATCGTTGCTAAAGTTAATAAGATCGTTGCTAAAGTTAATAAGATCGTTGCTAAAGTTAATAAAGATCGTTGCTAAAGTTAATAAGATCGTTGCTAAAGTTAATAAGATCGTTGCTAAAGTTAATAAAGATCGTTGCTAAAGTTAAATAAA$
	399451	CCAAGGGTTATCCCATAACTAATCACATCAGTAATGATTAAGGCCCAAAA
20	399501	CCATGTCAAACTAGTGTTGGGATTCCTTAATTTAAAAGCAGTAACAAAA
	399551	AAAGAATTAAAGAGACAAAACTAGTAATAACTGCAATAGTACTAAGTGT
	399601	CTAAAATCACTAGCTAAATCAATTAGTGTGCTTCTTGAAAGCAATTGTTC
	399651	TACTGTTAATGCAACAAGAAAGATAAAAAAGATCCCAAAAGCAGCTACCA
25	399701	TAAAAGTTAAACGGATTACAGAAAGCTGTTTTGTTTGTACAAACTGCTT
	399751	GCTGCTAAACCGTTTTGATCAATATAGCCTTTTGTTGAATTAATCATGAC
	399801	AATTTGACTTGTTAAATTTTAATTTGTCAATATAAAAAAACTAATAATTC
30	399851	CAAAATATATAGATAAGGATACTTACCCAAGTGGCTGAAGGGGTAGGCTT
30	399901	GGAAAGCTTATAGATGGGTAAAACCATGCGAGGGTTCGAATCCCTCAGTA
	399951	TCCGCCAGGGAGATTTACCCAAGTGGCTGAAGGGGGCGCTCTCGAAAAGC
	400001	GTTAGGTGGTTATCCACGCGTGGGTTCAAATCCCACAATCTCCGCCAAAT
35	400051	TCTTAACTGTATAAACAAAAAACACCCATTTTGGTGTGTTTTTTTATGT
	400101	CCATAAGTTAGTTGAATTTACTCATCAATGTAACCTGAATCACGCATTGT
	400151	${\tt AGCAATCCCTGAAGGGGCATTACGGAGTGAAAATCATGGTTTTAAAAGCCCTGAAGGGGGAAAAATCATGGTTTTAAAAAGCCCAAAAAAAA$
40	400201	AAGGAATAGTTTCATTTAACCCAGGAGCGGAGACTGGTAGAACAGGAAAC
40	400251	TAACTATCTACTACAGTAATTAAGAACTTAGCATTATCAGTGTCCTGTTC
	400301	AGCTCAAATGCTGTTAAATCGGTTAAGTTGAGCAGCGTTGTCATAAAGAT
	400351	CTTTCAATTCATAACCAATGTGGATATCTGATACATTTGCTGGTTTGTTC
45	400401	TCATCTATCTTGCTTCTTTTTGATAGATATTTATCAGGATCTTTAATTG
	400451	TTCTTTAACTTTATCAGCTTTCAATACCTTATTATCAACTAAAAATTTC
	400501	$\tt GTAAGCTTAATGCLTTTTTAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAAGCGGATGTACCGTTMAGTGAATGCTAATGAATGAAGCGGATGTACCGTTMAGTGAATGAATGAATGAATGAATGAATGAATGAATG$
	400551	TTACCATTAGTACCAAAGTTCTTAATGACATAGGGATCATCTTTAAAAAA
50	400601	ATCAGCACTTGTTATGCAACTACACCAGTCTTTTCCGTTAGTTGTTGTG
	400651	TATTTTGAAGTTTATTTTCAATTTGATTAAAGACATTGTTTTTGGGATGCA

400701	GCTAACAATAAAGTTCTGACAATATGACTACCTGAATTGTAAGTAA
400751	TTCACCAATACCCTCACTGTTAAGCTGTGTAGCAGCATCAAGTCAGGTAC
400801	CAACCCCATCATAATCAGGACTCCAATAAGAAAAACCAAGTACACTTGAT
400851	AAACCTATGTATCATTCGTTTCTTGTTGGACCTTGTGCATCTCCTAAGAT
400901	AATCTCAGGGATAATTAAATTTTCACCATTATCATTACCAAGTTCAGTTA
400951	AAGCTTGTTTTAAAGCGTTATAGTAATCAACTTGGTTAGAGGAGAGTGAT
401001	GCATTTCCTAGTTTAATGTTGAAGTGTAATGGATTGTTACCAGTAAACCC
401051	AACTTTTTTTAATGCACTGATAAAACTTTGCTTGGTAACACTTACTT
401101	TTGAAGAAACTTGACTAGTTTGACTACTGCTGCCACTAGTAGAAGCTGTT
401151	${\tt CTTACTTGAGCACCATTAGTTTTTGTAGAGCTATAGTAACTTAACTTAACT}$
401201	${\tt AGTTGCAGTATCAAGAACATTCTTATCCTTTTGAAAAGTTCCAGTTTGTT}$
401251	${\tt CAGGGATTAAACCAAGTCTTTGGTTGTTGTTAATCTTGTAATAATAATCA}$
401301	${\tt TTCTCAATTCCATCTGTATTTGTACCACTACTAGTTCCATTTGCTGGTTT}$
401351	${\tt TTCTTTAAAGATCCCAAAAGGAACAGTAGAATAGTTAACATCTCCTGAGT}$
401401	${\tt TGGGCAGATCAATGATTGCTAAGTTCTTTCAGTTGATCAAACCATTAATT}$
401451	${\tt CCAGCACGGATAGTCAACGCTTCTTCAGATTCACTGTTATATAAGAACTT}$
401501	${\tt AGCTTCTGTCTCAGTGATGTTTGCATTTAGTTGAACAGTACTGTCATTAG}$
401551	${\tt CAACATAAGGTTTACCTGAATAAGTTACTTGAGCACTTTGCGCAGTTTTT}$
401601	${\tt TGGATTTTAATCACCTCAGATCCCCTGTACCATTAAACCTTGATCTTGC}$
401651	${\tt ATCTTGTTGTTGGGAATAGGGAACAGCTGAAGCTGATAAGCCCCCAGCGA}$
401701	${\tt TATAACTAGAATAGAACACTTCAGGAGTAGCTCCTGGTTGGAAATAACTA}$
401751	${\tt ACTATAGCAGGGATAGGTTTTTCGTTTTCTTGTCTTGTTTTAGGAAGATT}$
401801	${\tt AGGGGTGATAATTGCATCATAAATCTGGTTGCGTTTAAAGACAATTTGTG}$
401851	$\tt CTTGGTTAAAACTCTCAACATAGTAAGGGCCCAACTGATCAAGTGTCTTTT$
401901	${\tt CAAGCATTAACACCCCCTCCATAGATACCATCAAAGTTAGTATTTGCTTG}$
401951	ATCTAAAATCTTTCTGTTGTTATTTTGGTTATATTTAAGCGGTGAATCTT
402001	${\tt TACCTAGTTTAAGGGCTTTTACCTTAGGATGGGTGTGAGGAATTGGAAAG}$
402051	AAGAATTCCTTTGACATCATTGATAGAAAGGAAAAGGAAAAGGAAAGTTAG
402101	ATAAACATTAAACTTGTTATCATCTACACTTCTATAGTTTTCAACATCAT
402151	AATTTTCATCAGTGATCTCAATACCTTTACCATTGCCATCACTAGAACCG
402201	TTGGTTTTATCCATACCAACGGTTTTTTCAACATCAAGACCCATTAGGTC
402251	AATGAAATAACCATTCCGGTTAAAACCTAAGTTAGAAGAGAGAATATAGG
402301	TCTCAAAACCCCTTTCAAAGTCTTTAGAGGAGAGTTTAACTGGTTGGT
402351	TTTTGTTTGACTTCTCTACCAGCATTATCAACCCAGCTCAAACTAGTGTT
402401	AATGGTAAATTCATATCTGGTTGCTTCTTGGGTTATCTTGTGATAGTTAG
402451	GATCTTCAGTAATAGACTTTGAACTATCACGATAAATTGTGCCTATTGCA

	402501	${\tt TCCCACTCATTGAACTTAGTGTAATCATTCTTACTAGATCCATCAGAAGA}$
5	402551	${\tt ATCTGTTGAACCGTTTTTTTGTGCTCTACCTTTAAGGCCACTGTGTTTG}$
	402601	${\tt TCTTTTTATAGCCAGTAACTGATAAAGCAAGTTCTAACACTAATTTTCT}$
	402651	${\tt TTAATTTGGTCAGTAACATTAACCCCATCATCACGGTTTGTACCAGTAGC}$
	402701	${\tt AACATAGTTAGCTTAACCCTGCATAAGCATTACCAAAAAAAA$
10	402751	${\tt GTGAAACGTTAAACATGCTCAATGGAACAGAGTTGTTCTTTAACAAATCT}$
	402801	${\tt GCTGAAGAAGAGGTGAAAAACACCCCTTTGTTTAACTGTGAGGATGCACA}$
	402851	${\tt AGCACTTAGGATTAGTGCTGCACTAACTGTCAGTGTAGAACCGAGCAACA}$
	402901	${\tt AGTATCTTTTTTTAATTTCATTGTGTTCTTTCATAAATAA$
15	402951	${\tt TTGATTGCTGATTAGTAAAAAAGAGTTAAAAAACAGCAATTTACCCTTAG}$
	403001	${\tt TTAAAAACTAAAAGTAGTTTTATTCTAGTTTGCAATCACATTAGATTGCA}$
	403051	${\tt AAATCAAAAACTAATGTTTTTATCAATTGCTCACTTTTTAAACAAGAAAA}$
20	403101	${\tt TGCTTAATACAAAGTTAGCAAAACTAAAAACATGGTGCACCCGAAGGGAC}$
	403151	${\tt TTGAACCCCCACTTCTAGATGAAACTAGATCCTAAGTCTAGCGCGTCTACCCCCACTTCTAGATGAAACTAGATCCTAAGTCTAGCGCGTCTACCCCCACTAGATCCTAGCTAG$
	403201	${\tt CATTCCGCCACGAGTGCATTATTGGTGCATCTTGAGGGGATCGAACCCAC}$
	403251	${\tt GACCCAATGATTAAGAGTCATTTGCTCTACCAACTGAGCTAAAGATGCAG}$
25	403301	${\tt ATAGTGGTGCCGACTATAGGATTTGAACCTACGACCTATTGATTACAAGT}$
	403351	${\tt CAATTGCTCTACCAACTGAGCTAAGTCGGCATGGTGGATTGTGAGGGGATTGTGAGGGGATTGTGAGGGGGATGGAGGA$
	403401	$\tt CGAACCCCGACCCTATGCTTGTAAGGCATATGCTCTCCCAGCTGAGCTA$
30	403451	${\tt ACAATCCATCACTTATGGTGCCGAATACAGGAATTGAACCTGTAGCCTAT}$
30	403501	${\tt GCATTACGAGTGCATCGCTCTGCCCTTGAGCTAATTCGGCATTGGTGACG}$
	403551	$\tt CGTACGGGATTCAAACCCGTGAATGCACGCGTGAAAGGCGTGTGTTTAA$
	403601	GTCTCTTCACCAACGCGCCAAATAATGGCGGCCACAACAGGGATCGAACC
35	403651	TGTGACCAACCGGTTAACAGCCGGTTGCTCTACCGCTGAGCTATGTGGCC
	403701	TGAGAATAAATTCTAGAATTTCTAGCCAATTTTAACAGCTTCCTTAGGAT
	403751	ATGAATAACTATTTGCTTTGGGATGTTTTCTAACAAAAGTTAGCACAGAA
40	403801	CTGGACACCAACCTGTCCCATAACCATTAATAGACATAAAGCAAGGAA
4 0	403851	ATTAAAGGTATTTCTATTTGGATCTAAAGCAATGTTAACAGTAGCTCCAC
	403901	TTGAAAGTCCAACTGTTCCAAAAGCACTAGTTGTTTCAAATAAAGCATCA
	403951	ATGAAACTAACTGGTTGTTCCATACTTAAAGGTAGAAGAACAGCTGTTAG
4 5	404001	TAAAACTGCAATTAAGCTTATGATTAGTACTAAAAAAAGCATCTATTACTG
	404051	TAGTTTGATCGATTGAACGCTTAAATGCTTTTACTTCCTTTTGACCTTTA
	404101	${\tt AACTTAGCAACTAGAGCTAAAAAGATTACTGCTAGCGTAGTTGTTCTAAT}$
F.0	404151	CCCCCCAGCAGTAGAAGAGGGACTAGCACCAATAAACATTGCCAATGCAA
50	404201	TAATTATTTTTGTAGTTTGAATCTCACTAGCAACAGGGAAAACACTAAAA
	404251	CCTGCTGAACGGGATGAAATAACCATAAAAAAGAGCTGCATTACCCTACT

	404301	${\tt TGCATTAGGGTTATTACCAAAAACTGACGCATGGATTGCTTGGTTAGATT}$
	404351	${\tt GTGATTGCAATTGGGTATTTATTAAACTCTTTTTTCATCACTAAAATTA}$
	404401	${\tt ACAATAGTGTTAGTTAAACTATCACTAGCAATAAATTCCACCATTAAAAG}$
	404451	${\tt TAAGGTGAAAAAAAGCAGGATTACAACGATATTAGTAATTACTGTCAACT}$
	404501	${\tt TGGTAAATAGACTAAATTGGTGTTTTGTGTGTCTACCATACTTAATCTTT}$
0	404551	${\tt TTTTTAATGGCTTCAAAGCCATCAAACAAACAAGGATAACCAATTCCCCCC}$
-	404601	${\tt AAAGATAATTTGGCTAATAGTTAACCACTGAATAATAATACCAAGTCCAT}$
	404651	${\tt TTCTATAAGGAACAAAAGAACTACCCCCTATCAGATCTATCCCAGCATTA}$
	404701	${\tt TTAACTGCTGATAAGGAATGGAAAAACCTGCTTGAAAAGCCTTATTAAT}$
5	404751	${\tt ATCATTAAAAGCTGCTATTGTTTGGTTTGAATCAACTACTAAAGCTTTTA}$
	404801	${\tt ATTGAGTTGAAACTTTTGCATGATCTGCAAACAAGTTAGCAGGTTCAAAG}$
	404851	${\tt CCTGGGATGAAATAAAACaAAATACCATAAAAATCCATAAATTAGTTC}$
0	404901	${\tt AACGATAAAAAGAAGATGATAGATACTAAGATCATCTCACTAGTATTAC}$
•	404951	${\tt CTAGCTTAGAACCACCTCGTTCTGATTGCAACATTAACTTTTCATAAAAA}$
	405001	${\tt CTGTATTGTTCCTTCTTGTGAAAGTTAAACAATCGTCATGCTAAAAAAGC}$
	405051	AATAACAACAAATCCAATCCCTCCTAACTGGAGTAATACTGCTAAAACTA
25	405101	${\tt TCTGGCCAAAGATACTGTATGTTTTTGATACAACAACAGTAGAAAGTCCT}$
	405151	GTATCACTAAAAGCACTGGTTGATAAAAATAATGCATCTAAAAAGTTGTA
	405201	ATCAGTTTTCTGTTCAAATCTTTTTCCCTGTCAATCAATTCCATAACTAA
30	405251	${\tt CCACTTTTGGTAGTTATCTTGGAGTGCAATTGGCAAAAATAACAGCAAA}$
	405301	CTTCCAAACAAGATGCAATAGATATAAAAAACAAAAAATTCGTTGGGTAAT
	405351	${\tt AGTCTCACCTCAGCCAATTTTTTTTAACCAAGTGGTGAGTTTTACCATCT}$
	405401	GGTTTTGTCTTGTCATTAAAAGAACGCTATCAAATATAATTTTACCA
35	405451	${\tt AGGTATGAAACGTGCAGATTTTTGCATTATTGGTTTAGGTAGATTTGGGAATTTGGGAATTTTGGAATTTGGAATTTGGAATTTTGGAATTTTGGAATTTTGGAATTTTGGAATTTTGGAATTTTGGAATTTTTGGAATTTTTGGAATTTTGGAATTTTTGGAATTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTGGAATTTTTT$
	405501	TGCAGGTTGCACAATCACTAAAAGAAAACAACTTTAACTTACTT
	405551	GATCTTGATGATAAAAAAACTGACACCGCCTCGCAACAGTTTGATTATGT
1 0	405601	TATTTGTTGTGATGCTAGTAATCTAACTGCTTTAGAAGAGTTACAAATTG
••	405651	ATGAATTTGCTGGGGTTATTGTTGGGGTTACCAACATAGAAGCGAGCATC
	405701	ATGATATGTGCTAATTTAAGGGAATTAGGACAAAAAAACATTATTGCTAA
	405751	AGCCAAAAATGAAGTACATAAAAGGGTGTTAAGCACAATGGGAATTAGAG
45	405801	AAGCTTTGATCCCTGAAAAGATTGTTGGTAAAAATCTGGTTATCCGCTTA
	405851	ATCCATGGGCTTGAAAATGAAATTATCAACCTTGGTAATGAGATAATTTT
	405901	CATCCGTTCAGCAGTTAACAACAAGGCTTTTTTTAACAAAAGGTTAGAAG
50	405951	AGATTAACTTTAGGCAAAACACCGATGCTAACATTATCTCCATCATGCGC
50	406001	AGTAATAAAACTGTTGTTTTTCCTTTAGGACCAAATACTGAGATCCAACC
	406051	AGGGGATATTATCACTGCAGTTTGTCAACAAAAAGTTTAAATAAGTACT

	406101	${\tt TAAATTACATCAAAACCAAAAATAAAAATTAAAAAAAAGGATCAT}$
5	406151	${\tt CATGATCCTTTTTTAGATAGCATGCTGTCAATAAGCCATGTTCTGTTTT}$
	406201	${\tt AAAGTCAGTTATTTATCTACAGCAATTGCTGTCATTACTTTAATTATTTG}$
	406251	${\tt TTCTTAAAGCAACATTCCCTTACCAAAATTTAGGTTTCTTGCTTG$
	406301	${\tt TTTACCGCGTTTCATACCTGGTTTTCACCAAGCTCGTCTCTGTGGCACTT}$
10	406351	${\tt TCAAAACATCATAGTATTAACCTTAGACTAGTTATGTCGTTATGGCT}$
	406401	${\tt ATCACATCCTAAATCTTATCGCTTTGATTTACACAAACACTACTTGCATT}$
	406451	${\tt CCAGCAAGTGCAAGCATGGACTTTCCTCTACTTTAAATATATCTTTAAAG}$
	406501	${\tt CAGCAACTAACCGACAGCGTCAAAATTATAATTTGGTGTTGGGGATGTTT}$
15	406551	${\tt TGGGTTTGACATAATGCTGATAGACAAACAGTAGCATTGGGGTATGCCCCC}$
	406601	${\tt TTACAGCGCTAGGTTCAATAACCGACAAAGAAAATAACGAAGTGTTGGTA}$
	406651	${\tt GAACCAAATTTGATCATTAACCAACAAGCAAGTGTTAACTTTGCTTTTGC}$
20	406701	${\tt ATAAGTAGATACTAAAGCTACAGCTGGTGAATAGTCATAGTTTGCTAGCT}$
20	406751	${\tt GTCATAGTTTATGACTCGAGGTTAAATCGTTCAATTTAACCTTTAAAAAT}$
	406801	${\tt AGAACTTGTTTTCCATGATTGTTTTTGTGATCAATTGGAAACAAGACAA}$
	406851	${\tt AAATCCACAAAACTAAAATGTAGAAGCTGTTTGTTGTGTCCTTTATGGAA}$
25	406901	${\tt ACGGGTTCGATTCCCGTCATCTCCACCATTTATCAACTTTAAGTTGGCCT}$
	406951	${\tt TACACTCCCCTAGTTGGGAGTTTTTATTTTGCCTTACTCTTTTTAAAGAG}$
	407001	${\tt TTGTTTTAATTTGGTTTTGTTGTAATTAAAAGCAAAGATAGCTATAAAAA}$
30	407051	${\tt AGAAAGAATAAAAACTAAGCTAATCGCTCAAGCGGTAGCAAATACACCA}$
30	407101	${\tt AAACTATTTAATTTAGAGAGATAAACACCATTGTTATTTCAACATTAAA}$
	407151	${\tt AAACAAGCTAAACCGCGTTGCTGATTGAATTTTTTGTGTATCTCTTTCAA}$
	407201	AAAACTGTTGGTCTAATAACACCAAAAATAAAACCATTAGCAAGATCCAT
35	407251	AAGAGATAAACAACAATACTGATAAAAAATCCAGTAGTATAGCCAATGCG
	407301	CTCTCACTTAGTAGTCTGACTTTTAAAAAATAATGAAACAGTTCATCTAA
	407351	AACTTAGAAAACTAATGCTAAACTAATTAACCCAAAAACTAAGTTA
40	407401	GCAATTCCATATTGACTAATCTGATAAGTAATACTAGCTTGAATAATATC
40	407451	AGTTGGTTTTTCAACAGTTCAAAAAAGGTAAAACTGATTAAAGCCGTTAA
	407501	CTTCGTTAAAAGTGAATTGTTTAGTGTGAAAAACGCCAGCTAAAAACAAA
	407551	ACGTTGTTTAGAAAAAGCAGAGAAAAAAAAAAAAAGTAAACAAAAGTATC
4 5	407601	AAGTAAGCCAAACCTGCTGTAAAACAGATAGTTACTGTGTTTGGAAACAA
	407651	CTTGATACTCAGCGACATTTATTTCACTGAGTTTATCAGATATCTTATTA
	407701	ATCCAACCACCACTATTTTTTTTTTTAGAAAGCACGTGGGATAGATT
50	407751	TAGATAATCAAACTGATTTTTTTTTTTTTAACAAGTACCATATCTTCTATC
50	407801	CTAATTCCACCAAGGTTAGGAATATAGATCCCAGGTTCAATGGTTACAAC
	407851	$\tt CCCATTTTCACACAATAACTTGTTGTAAGATTGGGAAACATTTGGCATTT$

	407901	CATGGATATCaATACCAACGCCATGACCAGTACTATGCACAAAAAAGTCT
	407951	${\tt TTAAACTCAGAGTTTTCAATAATATCGCGGCACACCTTATCAACTTGTGA}$
	408001	ACCTGTTAAAGTAGTGTTTACTGCATTTATACCAGCCAAATTAGCCTCTT
	408051	${\tt CAACTTTTTGTATGCAGATAATAACTTTGCACTTTTAGGTTTTTTACCA}$
	408101	ACTAAAAAGGTTCTTGTAATATCAGAGCAATAACCGTTGTAAATGGTGCC
0	408151	${\tt AAAATCACAAGTGATAAAATCACCTTCCTTAACTATTGTTTTGGTTGG$
	408201	${\tt TGTGATGTGGGTTAGCACCGTTTTTACCAGTAGCTACTATAGGATCAAAT}$
	408251	${\tt GAGTTTTTAGCCCCACCCTGCTTCACAAGCTCATTAGTAATCCATTGTGA}$
	408301	${\tt AATGAAAAGCTCAGTCATTTTTGGTTTAATAAAACGCTTTAACTTAACTG}$
5	408351	${\tt CTACTTTTCTTGTAATATCAACTGCTTTTTCAATGGCTTGAATCTCACTA}$
	408401	${\tt GGCAACTTTACTCTTCTAATCTCTTGGGCATTAATTACTGTGTATTGTTT}$
	408451	${\tt ACAAATAGCTTGAATTCAATCCTGATAGTTAAAGGTAAGATAGTCACCCT}$
20	408501	${\tt CAATTAAAAGGTGATTGATACCATTAGATTCACAAAAAGCTTTAACTTGT}$
•	408551	${\tt TTAAAACTAACAAATAATTCAACTTCAACAATAGGATTAATAAAGTTCCT}$
	408601	${\tt TGCTGCTTCATAATACCTACCATCAATAAACAATTTTGCTTTATTGCTGG}$
	408651	${\tt TGATGATTAACCACCCTGCACTACTTGGAAAATTAGTTAATCAAAAGCGG}$
25	408701	${\tt TTTTGATCAGAACCAATTAGGATAGCATCAGCTTTATTGGTTTTTAAAAG}$
	408751	${\tt ATCTTTAAGAACTGTAATTTTTTTTTTTTTTTACACTAATCATTATTTACG}$
	408801	${\tt TTTTACCTCTTTGTGCAATACTACCTTACGACAACGTGAACAAAACTTAT}$
30	408851	${\tt TAAGTGCTAGTTTTTCTTGGATTTTTCTTGACGTTTTAAAGGTTAAATAA}$
50	408901	${\tt TTAATCTCAGAACATTCATTACAACCTAGTCGTGTGCTTCTTTTAACAGC}$
	408951	CATAATTAAATTATTATTTATTGTCAATAAGTAAACTAATAGAA
	409001	${\tt AAAGCATCAATGCCAGTGTGAACAATAATCACACTTGTAATGAAAGCATT}$
35	409051	${\tt TTCAATTTCATTTTGAAAGTTAATCTTATTATGCTCAATGAAATCAGTAA}$
	409101	${\tt TTATTTTTTAATTTCATTAGCGTAATTTTTACAAAAGAATAGCAAAAA}$
	409151	CCGATCCGTTTAATTTTGTAGTTATCACCAAACTTAGTTTTAACAAAACC
40	409201	AAATATCTTCTCAACCGCTTGACTAAAACTAAAAACTTTTGCTCCTAGAG
	409251	TATTAACTCCCTTGTCAAACAAGATAATAGGTTTAACTCTTAGTAAAGTA
	409301	GTAATGAACTTTTTCAAACCAGAGATTCTCCCACCTTTACGCATTTGCAC
	409351	TAGGTTTTTTAAAGTAACTGCAGAAAGGATATTTTGTTTATGTGATTCAA
45	409401	CCTTTGCTTTAATTGTTTGATTATCACAACCCTTGTCAACCAATGCCTTT
	409451	ATATCTTCGACCAATCATTTTAGAGAAATAGCAATATCACTAGTTTCAAA
	409501	CACTAAAAATTCTTTGTCTTTATTTTGTTCACTAAGCTCTTTTGCTAATT
5 0	409551	GAACCAACATATCATAAGTACCACTTAAACCTTTACTTAAAGGCAGAAAA
50	409601	ATAAAGCGATCATACTTAGTTTTAATCTCTTCAAAGATCTTAAGAAGATC
	409651	ACTTTGACGTGGTAAGGAAGTTGAGATGTTAAGTCCATGTGGGTTTTCTT

	409701	${\tt TTAGAAGTTTATGAACATGATCATAATCAATTTCTATCCCATCACGAAAG}$
5	409751	$\tt CTTTTTTCACCATCAACAATTACTTGTAAAGGCAAGATGTAAACGCCGTT$
	409801	${\tt AATCTCCCCAGGTTTAATAGAAGCAGTTGAATCAGTGATGATAGCTGTTT}$
	409851	${\tt TCTTCATGAATTAATCTCCTTAGTACCTTTGTTTCTTTAAATTATCTAGA}$
	409901	${\tt AACTCTAGCACATAATCAAAAAAAAGTTTAGGCGCTGAGTCGTGTGAAAAAAAA$
10	409951	${\tt ATGACCAACACCATCAATAACCTTAAAAATAATCTTGTCACTTTTATTAG}$
	410001	${\tt CTAGATAGTCTACAGAAGCTTTGGTTGGCGTGACAATATCATTAGCTCCT}$
	410051	${\tt AAAATAACTAAGGTAGGTTTATTACCAATCATTTCATAAGCCCTTTCAAG}$
	410101	${\tt TGAGTCATTACCATATTAGCGTTTTGAACCATATCACTGTAAAGTGTTT}$
15	410151	${\tt TAAAGGTAGTTCTTTTTTTAAATGCATTGATAGCTATTTTCAAAAGTGAT}$
	410201	${\tt TTACGTTTTCTTCATGTTCAACAAAATCCTTATGGTTGCTGTTATTACG}$
	410251	$\tt CTTAAAAAAGTATCTAAAATCCGCTTTTTATTAACTGAGAAAGAA$
20	410301	${\tt GATTCATAGGAGCTACTAATATTAAAGCCTTAATTTTTAGTGGTATAACT}$
	410351	${\tt TTGTTAACTAAAACAGCCACAGCACCTCCCATACTATGACCTATTAAAAT}$
	410401	${\tt GACGTTATTTAGTTTTTTTGAACAATAAAATCACAAACCAAATCAACAA}$
	410451	${\tt AGTGGTTTAGTTTTAATTGATCTGTATCTGTTGATTCATTGTCTCCATGA}$
25	410501	$\verb CCGGGAAAATTAAAAGTAAAGAAAGGCCACTTTTCTTTT$
	410551	${\tt AAAAATACGACTAAAACTGGCATATTCGCTTCCAAATCCATGTAAAAAAA}$
	410601	${\tt TAAAAACGTTTTTCTTTTTTTTTTAGGTTTAAAGGCAAATATTGAGTTAAAA}$
30	410651	${\tt AGAGTATTTTATTACTCGTTAGCATTGATTTTAGCTAAACGTTCTGCAT}$
30	410701	${\tt ATGCTTGGATGCGTTCTTTCTTAGAAAGTTTAGCGAGTTTATCATCCTTA}$
	410751	${\tt TTTTGGATAACAAAATCACGTTTTTTAATTCGTGGTTTTTTTATTTCAAC}$
	410801	${\tt TGGTTTATCTTCATCACTAGCTTCTTTGATCTCTTCAGTTTGATTAGCAC}$
35	410851	${\tt TAATGTCATTGAAATATTGCAACTGATTTTGCAGTGCTTGGTTTTCTAAA}$
	410901	${\tt AAAAGTTGTTCTTTTCAATTTTTAATGTTTCTAGTTCATCAAGATGTTC}$
	410951	${\tt ATCACTGGTAACTGGAGTAAATTGAAGTTCTTTTTTAGCATTTTCAAGTG}$
40	411001	${\tt AATTTATTTGTTGTTTTAACTGATTATTTTCACTATCAGATGCACTTAAA}$
40	411051	$\tt CTTTGCTTGGCTTTCTCCAATTCACTGTTTGTTTCTTCAAAAGCAGAGAG$
	411101	${\tt TAAATCTTGGTATTGTTCATTAGCATCATTCAATTTATTCTTTTTAAGCT}$
	411151	${\tt TTTCAAAATCAGTTTTTAATTTGCCATAGCTTTCTTGTAAGATTTCATGA}$
45	411201	${\tt TCAGCTTGGAGCTTTGCTAATAAGTTATTGCTATTCTCAGAGCCTGATAA}$
	411251	${\tt TTCATCTTCTAAATCATTAATTTTTTCATTAAGTGCTAAATTAACTTCTT}$
	411301	${\tt CAAGCGTGGCTAATTTATCTTGAGCAACATTAAAAAGATTTTGAGAGTCT}$
	411351	${\tt TTGAGTTGCTGTTGGAGATTTACTAACTGATTGGTATTTAAATTACTCTT}$
50	411401	$\tt CTCTTCATTCCATTCTTAACTCTGCAATTTTGTCTTGCAGTTGTTGAT$
	411451	${\tt TTTGAATTGTTAAACCATTAAGTTTTTCATCGAGTGCTTTTTTCTGTTCT}$

	411501	${\tt TCAAATGAATTTTTAGTGTTATTGAAGTCATTATCTTTAGACCTTGTTCA}$
	411551	${\tt CTCAATTTCATCTAATAAAACATCATTTTCATGTTTAAGTGCTGAAATTG}$
ī	411601	${\tt TTTTTGATAATCTAAGTTTAGCGCTTGTTGTTTCACTTGCAATTTATCA}$
	411651	${\tt AATTTTGTTTCATCATCAAAAAGTAGTTCATACTGATTTAAAAGATC}$
	411701	${\tt ATCATATTTTCATTCTCATCATTAGATGTGTTGTCATGGAGTTTTTTCA}$
0	411751	${\tt GTTCATTTTCAAAAAATCATTTTCTTGTTCAACTAGATCCAATCTTTGG}$
	411801	${\tt TTTGCTTCTTGCTGTTAGTAACTGGTTTTGAAGTTCGTTTATTTGGTT}$
	411851	${\tt GTTTAAAACTGGTAATAAAGCTAATTGTTGTTGAACATTACTGCTCTTAT}$
	411901	${\tt TTTTCAATGCATCTAATTGATCTGAAAGCAAAGCTTTTTCTTGTTTTAAA}$
15	411951	${\tt TTCTCCAACTCTTCATTAACTTCATCACTTAAAGGATTAATAGCAACTGG}$
	412001	${\tt TTTATTTTGCAGTTGCTCATATAAATCCCTATTTTCTTGCAAAAGATCAT}$
	412051	${\tt CCTGTAATTTCTTGGTATGTAAGTGCTTACTTTTTCCTCAGATAACCTC}$
20	412101	${\tt CTTTTAAGATCATCGATTTCCTGTTCTAAATCAAATATTTGATCATTATT}$
	412151	${\tt ATTCTCTTTAAGATCATCGATTTGTTTTTTAAATCAGCATTTTCCAATA}$
	412201	${\tt AAAGCTCTTTGTTATTATAGTCATCCAATTCATCAACTTTTTTTT$
	412251	${\tt TGTTGCTCTTTTAAGATCCTTTTAACAACAAAAGGTTGATCATCATCTG}$
25	412301	${\tt ATCATATTGGATCGTTTATGAACTGGATTGATAGCTTTGGTTAAATTTT}$
	412351	${\tt CAATGGAATAGAAATCATCAAATTGTTCAGGTTCTTTAACCTTATCAGTT}$
	412401	${\tt GAAAATATTTGAACTTCTGGTTTTTTTTTTTTTATTAATCTCTTCACTAGG}$
20	412451	${\tt TTGGTTAAACAACTCTTCAAAAGATACTTGTTTAGTAGCTTCTGGTTTTA}$
30	412501	${\tt TCTCATCCTTATCATCTTCAGCAGTAATCACTGATGGTTTTAGTTCCTGA}$
	412551	${\tt AAACCAGTTTTAATTTCCTTGGTTAAAACTGATTGATCATCAACTTCTTG}$
	412601	${\tt AAAAGCCATAGTTTGATCAACTGTCTGTTGCTCTTCTTCTTAGTTTTAA}$
35	412651	${\tt GTTGATTTGCATAATGATTTAAAACATTCTTATCCCATTTTTTATCTAAA}$
	412701	${\tt ACCTTTAAATCTATCATCCAATTAAAAAAAAGAAACTATTGACTTTTCTTT}$
	412751	$\tt CTCAGCTTCATCAACAGTACCAAAAAATGTTTTCTCCAATAAATTTCTTT$
40	412801	${\tt CAAAGGGAATAGCAGTAATTTTAGATGGTGAAAAAAGGATATTATTAGTT}$
40	412851	${\tt CTTTGTACTAATTCTTTTAAAAGTGTTTTTTCATCAAGCTCATTATCAAA}$
	412901	${\tt ATCACTAATTTCAAGTTCCTTATCTACTGCCATGGATTATGTTGGAATAT}$
	412951	TAGATAAATAAGTATATTATCTTAAACTTCTGGCTTTGTTCTTATCCGTG
4 5	413001	${\tt CGTTTTTGATTTAAAGTAAAGGCTAATAGGTACAGAATTAAAACCAAAG}$
	413051	TTTTCTCTAATCTTATTCTCTAAAAAACGTGCATAAGAAAAATGAAGATA
	413101	${\tt CTTAGGGTCATTGCAAAATAAAACAAAATGGGGAATTTGACTTTTGGTTT}$
	413151	$\tt GTACTGCGTAAGTLATCTGCAAACGCTTGCCTTTAAAAAGTGGAGGTTGA$
50	413201	${\tt TTGTAAAGTTGTGCTTGCTGAATAACATCATTTAAAAGTGGTGTTGCAAC}$
	413251	$\tt CTTAGTTTCAAGTTGGCTTTGAATAATTTTAAGTTGTTCAAAAATAGTAT$

5	413301	11AAGGG TOATTITTE OF BEAGGG AND TO
	413351	${\tt AGGTGTTTAAAATGCAATTTCAGCATTTTTTATATGCATTTGTGGTGTTTTTTTT$
	413401	${\tt ATTGTTTTTAAAACTAGATCCCATTTATTCACAAGAATAATAACAGGAATAATAACAGGAATAATAACAGGAATAATAACAGGAATAATAACAGGAATAATAACAGGAATAATAACAGGAATAATAAACAAGGAATAATAACAAGAATAAACAAGAAATAAACAAGAATAAACAAGAATAAACAAGAATAAACAAGAAATAAACAAGAAATAAACAAGAAATAAACAAGAAATAAACAAGAAATAAACAAGAAAAAAAA$
	413451	${\tt TAAGTGCAGCTTGTGCCAATCCACCAATCACTTCATCTTGTTCACTAATA}$
	413501	${\tt GGTTTTGATCCATCTACCATCAAAAGGATAACGTTACTACGGGCAATAGC}$
10	413551	${\tt TAGCTTTGTTTTGATGTAAGATGCGGTTTCAATTCCCATGTTAATTTTGCCCATGTTAATTTTTGCCCATGTTAATTTTTGCCCATGTTAATTTTTGCCCATGTTAATTTTTGCCCATGTTAATTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTGCCCATGTTAATTTTTTTT$
	413601	$\tt CTTTTCTTTTAATACCAGCAGTATCAATCAAAAGAAATTTTTCACCATTAATAAAAAAAA$
	413651	${\tt ACTTTTAAAGGAACATCAATAGCATCTCTAGTTGTACCACTCTCATTTGACCACTCACACTCACACACA$
	413701	${\tt AACTAAAACACGATTTTGTTTTACAAGTTGATTAATAAGTGAGCTTTTACCAAGTTGATTAATAAGTTGAGTGAG$
15	413751	${\tt CAACATTTGGTTTGCCAATTACACAAAACCTTATTTTTGCTAAATCATCATCATCATCATCATCATCATCATCATCATC$
	413801	${\tt TTATTTCATTAGGGAGTAATTGATTTGTTTAACTAAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGATCCATTAPAGAGAGAGATCCATTAPAGAGAGAGATCCATTAPAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA$
	413851	ATCACCAATTCCAATTCCATGAGCAGCACTAATAACAACTGGTCTTCCAA
20	413901	${\tt ACCCTAAGCTGTAATAATCTTTTAATGTTTCTTCAGCAGTTTTAGGGTTAGGGTTAGGGTTAGGGGGTTAGGGGTTAGGGGGG$
	413951	${\tt AAATTTTCAGCTTTATTTACCACTAGTATTACTGGTTTATCCTTATTTTTTTT$
	414001	${\tt TTTAAGAACCTTAGCTACATAAAAATCATCGCTATTTAGTTGTTCTTGTAGTTGTAGTTGTTGTTGTAGTTGTTGTTGTTGTTGT$
	414051	$\tt GTGACACTAAAAAAATAATAGCTTTGGCTTGACTAAGTGCTGCTTGTACTGT$
25	414101	${\tt TGTAATGCAATTAGTTGTTGCAAGGGAGTTTGTTTTGCAATTAATCCACCCCCCCC$
	414151	${\tt TGTGTCAATAAAAGCTATCTTTCTTTTTAACCATTCACCAATTCCAAAGA}$
	414201	${\tt TCCTATCTCTTGTCGTGTTAGGAGTATCTGAAACAATAGCCATTGGCTTTGGCTTTGGGGGGGG$
30	414251	${\tt TGAATTAAGCGATTAAATAAAGTTGATTTACCAACGTTTGTACGACCTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG$
	414301	${\tt TATTGCAACAGTAAACACAAATTAAAGTTTAAAAACCTTCTTTGCTTCTT}$
	414351	${\tt TGAGGGTTTGTTTTACTACTGCATCAAAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAAGTGTCAAGAACTTAGTTCAGAAGTGTCAAGAAGAAGTGTCAAGAAGAAGTGTCAAGAAGAAGTGTCAAGAAGAAGTGTCAAGAAAAACTTAGTTCAAGAAAGA$
	414401	${\tt TAAATAGCGTCCTGGGCTTTTTTTAATGGGTCTGCAGTTCTAGAACTATCC}$
35	414451	${\tt AATTTGATCACGTTGCTTTAATTCTTGAATTAGTTCCTTTAGTTTTTTTT$
	414501	${\tt CATTTGATAGAGAAATTCCCATATCTTGTAATCTTCGCTGCGCTCTAATT}$
	414551	TCAACTTTAGCATCTAAAAAAAAACTTCAATTGAGCATTTTTTAAAACTAC
4 0	414601	${\tt TGTTCCTATGTCTCTACCATCCATCCATCTATGTTTTTTTT$
	414651	${\tt TCTGTTGTTTAATAACTGCAATTTTTCTAATGTTAGGATCAACAGCTATT}$
	414701	${\tt TTACTAGCAATGTTAGCAACTGATTGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATAACTGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATATCGGTTGTAATATCGTTGTAATATCGTTGTAATATCGTTGTAATATCGTTGTAATATCGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATCGGTTGTAATATTGTAATATTGTAATATTGTAATGGTTGTAATGGTTGTAATGGTTGTAATATGGTTGTAGTA$
	414751	AGCATTGTTATAATACACAGCATCTTTCTCAAAGCGTCAGTTAATTTGAT
4 5	414801	TAATGATTTTAAAAAAAAGATCAATATTTAATCTATTCACTTGCATTACA
	414851	TAGGCAAAGGCACGATACATTTTTCCACTAGAAAAATAAAAAAAA
	414901	${\tt TTCTTCAGCTATTTTTTAGCAACACTGGACTTTCCAGAACTACTTGGACCAGAACTACTACTAGAACAACAACAACAACAACAACAACAACAACAACAACAA$
50	414951	CATCAATTGCTATTTGTCAATTCATAACTAAATTTAAACAAATGAAACAA
<i>50</i>	415001	AACTAACAATCAAAAAAATAAGAAAAAACAAAATGCTAAACAGCATGAAA
	415051	CTTATTAAAGTTATCACTAAGTTCTTAAAAATAGCCTTATTAGCATTAAA

	415101	CAAATTAGGTTCGATGTTATCAATGCTTTTTTTAAAAGCAAAACTtTCAG
;	415151	TTGAAAAAACTGTTAGTATCTTGTTGTAtTCTTTTAAATCACTAGTTAAA
	415201	TTGCTTGTTTTTTTAATCATTGTTTCTCATTAGCTTCATAAAATTTACT
	415251	TAAGTGGTTAATCTTTTCTATTCCCTTATCATCACTAATTCAGCTTTCAT
	415301	${\tt AACCGCTAGAAGTTTGGTTATATGCTGCGTTTAACCACATCCTATCAACT}$
0	415351	${\tt TTTTCTTCTAATAATTTAAAGTCAGTATTTTTTAAATCAACTATTAATTC}$
	415401	$\tt CTGAAGTGTTTTAAACAGTTTATTTGGTTCAGTGTGATGTTTAACTGGAT$
	415451	TTTTATTAAATTCACTAAAAGGATGGTAATTAATCAAGATTTTCTGATTA
	415501	${\tt ATTTTATTAAGCTGTTTTTTCAGCTTTCAGTGTTCTTCTGAGCGTTAAT}$
5	415551	${\tt TAAAGCTTTTTAACTATCTTATTGTTATCAAAACTTTGTCTATAAAAGC}$
	415601	${\tt GAAATTTTTCTACTCTTCCCATGGGTTGGCATTATGAACAACAAACTGAA}$
	415651	${\tt TGTCATCATCTTCCTCACAAGCATTGAGAAAACGTGATAATAAAGTTTGC}$
20	415701	${\tt TGATTTCTATCTAAATCAACAGTTAAAAGAGGTACCAATTTAATTTCACT}$
	415751	${\tt ATCTACTATTGAAAAATTGTTTTTTTCAACAGCTCCTTTGCATGAAAAT}$
	415801	${\tt AACTATTTGAATGCAAGCTAATTTCAAAACACTCTTCATCATAATCAACA}$
	415851	${\tt TCAATTAAGTTAATATTGTCCAAAATTAATAATTCAATTAGATCATCTTT}$
25	415901	${\tt CAAATAGTTATTTATTAACAAAGATAATCCCTTCTTCTTGAAAATTAA}$
	415951	${\tt TCTTGACGCTATTTGGCTTGGCTAATTGTCCTTTTAGTTTAGCTAAATAA}$
	416001	${\tt CCGTTTAAACTACTGAGTAAACGGTTAGGATTATCAGTTAGTCCAAACAC}$
30	416051	${\tt AATAATTCCAACACCATTTGGTCCAAAAATCTCATAACAAAACTCGCTAA}$
-	416101	${\tt TTTTAGTTGTATCTTTTCACTACCATGGATATTTCTTTTAATTGAATCC}$
	416151	${\tt ATGCTTAGACCCTTAGCTAAAGCAAGATCAACTGCAACTTTTAGATGTGG}$
	416201	${\tt ATTTGACTGGATATTAGTTCCACCTTTTTTAACAGCTGAAGCTATTCTTT}$
35	416251	${\tt TTGCTAGTTTTTGAAGTTGTTTTTTGCACTTGTTTTTTTT$
	416301	${\tt TGATTAGCAATTAGATGCTTACGTGGCATGTAAGATTAAAAATTATTAGC}$
	416351	${\tt AACTTGGTCAACTTTGTGTGCAAACAGATCAACTACCTCTTGCTTG$
1 0	416401	${\tt TATCTTTGTAAAGAATTTTAGTGTCATCAATTAAAACACTCTCAAAATGT}$
•	416451	${\tt GTAACACCTGCAAAACCAAACCATGCCCTTTAAATTACTAACATGATCAGC}$
	416501	${\tt TCAAGGGTATCATCCTAATGGTGCACCTTGTGACGCTAAAACAACTACCT}$
	416551	${\tt TAAGATTAGTAAGTAATCCCTTAGAAGCACCTTTAGTAACATATTTGTCT}$
1 5	416601	${\tt TGAAAGGTTTTATTAGCTACAAAGACATGATCAATAAAGTTTTTTAAACT}$
	416651	${\tt AGCAGGATAATTAAAGTTGGTCATTGGTGCAAGGATAACAATTCCATAAG}$
	416701	$\tt CTGTTTTTAGGAGCATCAATATAATAATCACTATTTTCAAAACTAAAAAA$
50	416751	${\tt ATTACTAGCGTTTTGGGTATTATAAGATATCTTACCTACTGGTAATTCAL}$
,	416801	${\tt TTAAATTTCAATCAATAAATTCAACACTACTATTTTGTTTTTTATAAGTT}$
	416851	$\tt TGAAGGAAACGATCTAATAAAAGGTGGGTGTAAGAACCAGAAGGGGTTAC$

	416901	${\tt AGAAGCATCAACAATAATAACTTTCTTCATAGCTAATAATTAAAAGTCTA}$
5	416951	${\tt ATTTTTATTGTTAATTCTAATGAGCTTTAGTTAATTTAGCAATTAATT$
	417001	${\tt TTGGTTTCAGTAAGTTTTTTTTGATATTCTTCCAATTTTAAAAATTCACT}$
	417051	${\tt TTTTACCTTTTCTTTGGGTGCTTTTTCTAGAAAGCTTTTATTTTTAACAA}$
	417101	${\tt TAGCTTGGCTACGTTTTACTTCACTTTCAAAAAAAGCTTGTTGCTTCTGT}$
10	417151	${\tt AGAGATTTAAGTCTTTGGGTTGTATCATCAACAATTTGGTATTTAAAACT}$
	417201	${\tt AACTTTTTATTAGTTTCAATTTTCAGTTCAATTCAACTAAAGTTAAAGT}$
•	417251	${\tt ATTGTTTAACATCAACAGCATTTTTACCAGATAAGATAA$
	417301	${\tt TGTTGTGAATTAAGCATGTACTGTTTTCTGTAATTGCGTAAGTCATTAAT}$
15	417351	${\tt AGCAGCTAAAACAAGATCAAAAAGTTTGGGAATTTTAATTTTAGTTGCAA}$
	417401	${\tt GAGGTCATGTTGCATAACACTTTTATTGTTAAATTGCTGATAAATA}$
	417451	$\tt CGCTCAGATAAAAAAGGAACAGTGATACTAAGCAAAATAGCAATATTAGA$
20	417501	${\tt TAAAACTGATTTAGCAGTATAAAAAAGCTGTGGTTTTAGTTGATTTGGTT}$
	417551	${\tt CTTTTTTAATTGCTTCAATGAAAGTATTGCAAAAATCATCCCAAACAAA$
	417601	${\tt TTAACAAGAATTTGGTTTGCTAATGCTAACTGGAATTTATCTAGTAGCTT}$
	417651	${\tt AGTTATTTTTGAATTACTTTATCTAATTTAGCTAAGATTCAAGTTTCAC}$
25	417701	${\tt TTAATGAAAGTTTGTCCAAGTCATAACTAATTTCTTGATCATTTTCTAGT}$
	417751	${\tt TGGATAACAAACTTAGTAACATTCCACAATTTATTTAAAAAATTTCATGC}$
	417801	${\tt ACTTTTTTTTTTTTTTGTTCGCTGAAAATTAGATCATCTCCTGGAGTGTGAT}$
30	417851	${\tt TTGAACACAAAAATAAGCGCACTGCATCCGCTCCATAATTTCTAATAAGA}$
	417901	${\tt TCAACAGGATCAATGCCATTATTCAGTGATTTTGACATCTTACGATTTTG}$
	417951	${\tt TTCATCGCGTACTAAACCGTGGATTAAAACAGTTTTAAATGGCAGTLTTL}$
	418001	TAGTTTCAAAAAAGGAGTTAAATAACATTCTTAAAACTCAGAAAAATAGA
35	418051	${\tt ATATCATAACCTGTAACTAAAAGCTCAGTTTCATGAAAAGAGTCATCCTG}$
	418101	$\tt TTCTCAATTCAAACAAATTAAAGGTCAAAGCGAAGAAGAAAATCAAGTAT$
	418151	${\tt CAAGTACATCTTTGATCTAGTGTAGTTTTGTAAATTTTTTGAAGGTTTT}$
4 0	418201	${\tt TCACCAACAACTATTTCACCTGTATTGTTTTCAAATCAAACAGGAATTTT}$
	418251	${\tt ATGACCCCAAATTAACTGTCTTGAAATACACCATGGTTTGAGTTTATTCA}$
	418301	${\tt ACCAATTTGACACTTGCTTATTAAAGCGTTTGGGAATAAAATCAGGATAT}$
	418351	${\tt TTTTTTAAATATAAGTGATCTTTTAACTTTGGTAAATCAACAAATCACTG}$
45	418401	${\tt TTTTGAAAGCATGGGTTCTACAACAGTGCCACTGCGTTCAGAAAAACCAA}$
	418451	${\tt CATTACTAGTTAATGGTATTGATTTAACAAGTAATTTATTT$
	418501	${\tt CATTTAACAATTTTATTTCTTGCTTGTAAAACACTAAGGCCTTGAAATTT}$
50	418551	${\tt ACTTGCATTTGATTGAGAATACCGTTACTGTCAATGCAGCTTAGAAAAT}$
50	418601	${\tt CAAATTTATATTTAGTGTTGATTTCATAGTCATTAAAGTCGTGTGCAGGA}$
	418651	${\tt GTACATTTCAATATTCCTGTACCAAATTTAATGTCAACATAGCTATCTGT}$

	418701 TACAACAGGAATTTGTTTTCCTGTTAAAGGGTTAACTACTAATTTATTT
	418751 AGAAATTAGTATAGCGCTTATCTTTTGGGTTTACCAATAGACAAACATCA
	418801 GCAAAGATAGTTTCTGGTCTTGTTGTTGCAACTATTAGTTCTTGTTTACT
	418851 ATCATTCGCTAGTTTATAAACAACATAATGAAGATGTTGATTAACAGGTT
	418901 TATTGATAACTTCAATATTTGATATAGCAGTATTCAATTTTGTATCTCAA
0	418951 TTAACAAGCGTGTATGCTTGATAAATAAAACCGTTTTCATAAAGGTTTTT
•	419001 AAAACAATTGTTAACAATTTTATTAGCTTGTTCTGAAAGCGTGAATTTAG
	419051 TTTCAGATCAATTTAAGCAAACTCCTAAACTCTTTAGTTGATTTTTAATT
	419101 ATTTCGCTTTGATTTAATGCCCAATTCATGATCATTTCAGATTTTTTATC
5	419151 ATCATCTGCATCAAAATATTTTTGATTTTCTTTTAATGCTATTTTTTCAT
	419201 ATTTCGTTTGAGTAGCAATGCCAGCATGATCAAAGCCAGGAATTCAGTTA
	419251 ATACTAAATCCCTGCATCTTTTTAAAACGCATGATTTGATCAGTAATACT
20	419301 AACCTCAAAAGCATGACCAATATGAAGAGTACCTGTTAGATTTGGAGGGC
.•	419351 GAAGAATTGCTGTAAAAGAATTGTTTTTATCTTTAGGTTTAAAAAAAA
	419401 GCATTATTTCAAATTTCATAAAGCCCATCACTAACTAAGTTGAAATCATA
	419451 GTTTTTTGAAAACTAAATTTATCTTTCATCTTCAACGAATAATTCGAA
25	419501 ATTTTTTTGTGAACTAAAGCAAGATTATGATGTGTTTTLGTACTTGCAA
	419551 AACACATTTATCAAAATTAACTTTTAAAAAATTTGCAATATTCTTAAGCC
	419601 AAAAATATCTTTCACTTTGATTTAGTTTGTCAAATTTATTAGCAACAAT
3 <i>0</i>	419651 AAAAAGTTCAATCCTGTTTGCAAAATAATTTTAACCACTTCCTGATCTTC
,,,	419701 AACAGTAACAACTCCACTATCTACTATCAAAACAACACCAACTAGATTA
	419751 TACGAAAATTTAAAAATTGGGTAAGTAAATTAGTAATAAAATCTTTCTT
	419801 TTTTTGTTTATTTTAGCAAAGCCATAACCTGGTAAATCAACAAATCTTT
35	419851 GTCTTTATATTCAAAGTAATTTAGTAATTGTGTTCGACCTGGTGTTGCT
	419901 AAGTTTTAGCCAGTTTCTTTTTAAAAAAAGCATTAATCAAACTTGATTT
	419951 CCAACATTACTTCTTCCCATGAAACAAATCTCTGGGATATTATCTTGAG
4 0	420001 ACAATCTTTTAAATCACTTGCACTCTTCAAAAAATGTGCATCCATGTGT
***	420051 TTTTATTTTTGGTTTTTAATGGAGCGCATTATCTCTTTTACCTGGGTTT
	420101 AGATAATTTTCTACCCATTTTTGCATACATTGCTTTAATTTGATTTTCA
	420151 TAATAGGTGGATTGTCACGCATCTGTTTTTTAAAGATTTTTATAGAAAT
45	420201 AAATAACCAAGAATCATTCCCACCAAAAGCGAAAGAGGGATACCTAAAC
	420251 TAATGCAAGTGCTAGATCATTCATAGCTATATATTAATAATTAAACATT
	420301 TAAAAGTCTTATAAAATTAAATAATCGAATTAATGGATAAACTTGTTAG
50	420351 ATATTAGTTCCTTGTTACAAATCAAAACCTTTTTTAAAAACGTTTTTTTA
50	420401 TTCACTTTTAAAGCAAGATCTTAATCAAGCTAAAATTATTTTTTCAAT
	420451 ACAATGTTGCTGATGAAACCTATGAAGTTTTGCAAAAAATTCAAAAAAGA

	420301	CACARTAACTTAGCARTTGAAGTCTATTGTGACAAACAGAATGAAGGTA.
5	420551	TGGAAAAGTGCGTGATAAGCTAGTGAATCTAGTAACAACACCTTATTTT
	420601	ATTTTATCGATCCTGATGATTGTTTTAACAACAAAAATGTCATAAAAGAC
	420651	ATTGTTGAATCAATTAAAAAAGAAGATTTTGATCTTGGTGTATTAAAAA
	420701	TATGGTCTATTATGCTTCTTAAAACATGATTTCATTATTAAATTTTTGC
10	420751	CTTTAAAAGGTATTTTTCAAGGCAGAGTAAAATTAATTAA
•	420801	GTTAATAAATTAAATTACATCAAAAATAATGATCAATATATTTGAAATAT
	420851	TGTTATAAACACAGATTTTTTTAGGAAGCTAAATTTAACTTTtGAATCAA
	420901	${\tt GGTTATTTGAAGATATACCAATCTGATATCCGATGTTTTTTCATCACAA}$
15	420951	${\tt AAAATTGTTTTTTTGATGTGATAGGAACaAATTATTTTTTTTTGTAATGATGATGATGATGATGATGAT$
	421001	TAGTTTATCAACTACTATTAGTGCTCCACGCTACTTAAATTTAATCCAAT
	421051	$\tt GTTATGAAAAGCTATATGTAAATCTCAGCCAAAATGGTTCTCTTGCAAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGTAGT$
20	421101	TTTATTGATCCAAATCATAAGATTGAAGCTAGGTTTTGAAGAAGGCAAAT
	421151	$\tt GTTTGTTTGATTTGCACTTTTCAGCTTTGAATACTTTAAGAAAAATTTTTGATTTGATTTTTTTT$
	421201	CTGAATCAAAAAAATTCTTGAAAAACTATTTGTTTTTTTGGAAAAAAA
	421251	${\tt GGAGTTTATGAACGTGTTTTTCAAACAAAAAATCAAGGTATTTACTATAT}$
25	421301	${\tt TTGGGTACAGCGACTAAAATATTTTAAACATGTTTTGGAATCTAAATCAGGATCTAAAATCAGGATCAGA$
	421351	ATAACTAATTAAGTTCTCTTTAAAAAATCAATGAGATTAAAGTTATTTAA
	421401	AGCTTATTGTTTAATTTACTTAAATTAAGAATCTTTATCTTGTTAAATTA
3 <i>0</i>	421451	ATACTTAACTGGTTTAATGTCTGCAATTAAATTTAATCCTAGTTCATTCA
	421501	${\tt GAAAAAACTTTAAATGGTTTGAAAATAACAAAAATTGGATTAATTTTGAT}$
	421551	${\tt AATGCTGCTACTTCCATTGCACTTGATGTTGTGGCTGAAGCAAGC$
	421601	ATATTACCAGTATTTTTGTGTCAATCCTCATAACAAAAATCCTGAAATTA
35	421651	ACCAAAAACTTATTGCTATTATTGAAGAAACAAGAGATTTATTAGCAAAA
	421701	${\tt TTTTTCAATGCTAAAAAAAATGAAATTATTTTACAAGTTCTGCAACTGAAACTGAACTAACT$
	421751	ATCGCTTAACTTATTCGCCTTTGGATTAAGCTCTTTAGTAAAAGTAATG
4 0	421801	ATGAAATCATTCTCAAAGAAGATGAACATGCTGCTAATGTTTTTCCCTGA
	421851	GTAAATCTAGCAAAAGAAAATAAATAAATAAAAAAAC
	421901	ACCAAATAAATCTTGAACTGATGCTTTTTTAAAAGCTTGTACACCATCAA
	421951	CAAAACTATTAGTTATAACTGCAACATCTAATCTTTTTGGAAATAGTATT
45	422001	GACTATGAAAAATTTCTAAACACTTAAAAAAAATATCACCAAATAGCTT
	422051	TATTGTTGTAGATGCAGTACAAGCTGTACCACCACCATAAAATCGATATTA
	422101	${\tt CAAGTGCTAATATTGATTTTTTAACTTTTTCTACACATAAATTTTATGGA}$
50	422151	${\tt CCTACTGGTCTTGGCATTGCCTTTATCAAAAGCGAATTACAATCACGACT}$
50	422201	AAAACCCTTTAAATTAGGTGGTGATATTTTTAAATCATTGGATAATAACT
	422251	TTAAGATAATTTTTAAAGAAGGTCCTTCCAAATTTGAAGCTGGAACGCTA

	422301	${\tt AATATTATGGCTATTTATGCTTTGAATAAACAGTTAAAATTCATGCAAAA}$
5	422351	${\tt AGAATTTAATTTCAGTGAAATGGTGTTTTACAGCAAACAATTAAAAAATT}$
	422401	${\tt TAGCTTATCAACTGCTAAGTCAAAATCCTAATATCGTTTTAGCTAATCAT}$
	422451	${\tt GATCAAGATGTTCCTATCTTTGCTTTTAAGCATAAATATATTAATTCTGC}$
	422501	${\tt AGATCTAGCAACTTTTTAAACATTAAAAAAAATAATTGTTAGACAAGGAT}$
10	422551	${\tt CCATCTGTGTTGGTAAATTAAAAATAAAGAGAGTTTTTTACGTGTTTCT}$
	422601	$\tt CTACTCCATTACAACACAAAAGAGGGAATTACTTTATTTA$
	422651	${\tt AAAAACTAGTAAGAATTCCATTATTAATGAACTAATATATTAGCTAATGG}$
	422701	${\tt ATATTAGAGCAAGAACAAAAATTATTGATATTTATTCAAATTTAAAATAC}$
15	422751	${\tt AAAAAACCTCTCAAAAGTTTTCAAAAAATTTTAACAACAAGTGATAGTGA}$
	422801	${\tt TAATTGTGAAGACTTTTTTAATATAGGTTTAAATATTGATAAAAATAAAA}$
	422851	${\tt TTACTGCAATTGGTTTTGATGGTGATGGTTGTATTATCTCTACAATTGCA}$
20	422901	ACTGAATTAAGTATTAAAGCAATTGAAAATAAAACTATTAACCAAGCAAA
20	422951	${\tt AAAAATATTATCAGATTTAATTGCAACTTATAAAGATAAAAATTCAGCAA}$
	423001	${\tt ACCAAGTTGTTGAAGAATTAAAGCTTTTAATTGAAATGAATG$
	423051	${\tt AAAAGGTTACAGTGTTTGCTTTTAACACCAAGCAACTTATTGCAATGGTT}$
25	423101	TAAAAATTTTTAGCATTAATAGCTAACGTTTGTCCTAGGATATCATATAA
	423151	${\tt GCGTTTATCACCAACTAAAATCTGTTGATGTTCTCTTTGGTGTTGCTTTT}$
	423201	GATTTTCACGAATTAAATCTAAAAATGCCAACTCTTGAGTGCCTTCATCT
30	423251	AAAGCTTGTTCAATAAGTAAAGACATAAAGATCTCTTTCTT
30	423301	TGAATTAGCTTTATTATTTTTTCAATTACTAGAAATCTTATTTACATCAT
	423351	CATTTGTTATCTGAATAACATAACTAAGAGTCTGGATACTAGAGTCATTT
	423401	GTTAATGGAACTGTTTGCACAGTTTTATATCCTTCTGTATTGGAACCATC
35	423451	TGTATTTGCAGCTTTAGATAAACCAACATAACCTTCAAATTTATGAAAAT
	423501	AAAGATCATCTAGTCTATCAACTACATTTAATAAAAACTTTTTTTATTA
	423551	TCAAAACTTATTAAAGGTTCACCTCTAGAGTTAAAGCGACTTAAATTATT
40	423601	TGTATCAACATTAACTGAGCGATGTAATAACTCACCAAAAGCATTAAGTT
4 0	423651	CAGCATCAGAACTGGTTTTATTAATCAAGCTTCACAAGGTAAACTTATCC
	423701	TTATATTGACTTAAAGCGCCTGCTTTATCAGTTGCTGTAATTAACTGTCC
	423751	GTAATTATTAAAAAGCTGTTGTGTTAAACCAGCACTAGCTGTTGAAATAC
45	423801	TTTGATTGGAATTAATTGTTAAACCATTAAATCCATAAAAATATTTTTTA
	423851	TCACTTGATCCTTGTGATTTATTAGATAAAGCTACAGAATTATTAAACGG
	423901	TTCATCAGTAAATCTATAAGTGTTTTCACTTTCAAGCAATGAATCGGGTT
50	423951	GAATTGGTGTTTGTTTATCATTGAATCAGTTTATTTCAGAACCTTGAGTA
50	424001	TAGTTAGGATTTTGTAAAAACCTATTAAAAGGGTTTTCATTAGCTGATGA
	424051	AGTACTGGATTTTGTTTTTGACTAACAGTAGCGCTAGGGTTTTTATCAT

	424101	ATCCTACTGTTCATGAAACAAATGCTCTAGTGCCAATTGGAATTGCTTGT
	424151	${\tt TGTAAAAGATTCTTATAGTTTTGAGCACCATTTTAACAAGTCACATTAA}$
5	424201	$\tt CGCTTGCAAAAAGCGCATGTATTTGTACTCAGCATCCTGATTAGGATCTT$
	424251	${\tt CCAATTCCTTTCAAATGCTTTCTTTGCTAAATCTAATAGGGTTTGATTA}$
	424301	${\tt ACACTACTAGAAGTATGAGATTGGGCAGCTTTATTTTGCATTTGCAACAT}$
10	424351	${\tt AGTTGAAGTTGAATTTACACTACCCAAATCCTTATAGTAACCAAAGCGTT}$
	424401	$\tt CTTTACTAGTTAAATTTTGTCAAGAACGGATATAAAGTGCCTGTTTAACA$
	424451	${\tt AGATCATTAAAATCAGAAAATTCACCTTTTAATTCTTTATTTGAAGTATC}$
	424501	${\tt AAAATTATTAGTGAATGAATTAGTGTTTTTAAAGTACCAATTTTTAAAGA}$
15	424551	${\tt TGTTTGCAACAGTACCTGTTCTAATTCCTGAATCAGTTAAAAGTGATAAT}$
	424601	${\tt ATAAGATCAAGATCCAAGTCATTTAATTGTGATGATTTTAGGGTAATAAT}$
	424651	$\tt CTCTGAATATTGACTAGAAGAATAAGTTGTAGCTTTTCATTTTCAACTA$
20	424701	${\tt ATTCTTTGGCTTTATTTTCTACTTCAGTTGTTAAAGTCTTTAAAGTTTGA}$
	424751	${\tt TTATTTTTTCACGAGTTGGTTCATTATCAGAAGTAATAGCTGCAGCAGT}$
	424801	${\tt GGTTTTCAAAGTTAAAGTTTGAGCACTACTTTGATCAGAGTTGTTATTAA}$
	424851	${\tt AAAATTTTGCTAATGAAGGATAACTACCATCATTTGCTCTTTTATATGGA}$
25	424901	${\tt AGAGGTTGACCCCAACCAATTGAACTTTCTTTAGCTTCCTTTTGAAGTTT}$
	424951	${\tt AATGTAGTTGTTAGCACGATCAACAATTGCTTGTTCTAGTTTTTCTATAT}$
	425001	${\tt TAGCTAAATCTGTTCTAAAGTTATTAAGTTTATTAGCAGCTTTAATATAA}$
30	425051	${\tt GACTCATAACTTGATTTTTTTTGTGAAAGTGAATTATTAAAATCTTGTTG}$
	425101	${\tt TTTTTAATAGTTTCAGATAAATTGGTATTGTTTTTAAAAGTTTTTTAG}$
	425151	${\tt CTAAATCACATACATCTTTTTGACCGTTATTATTAGAAGTTCCATTTTCT}$
	425201	${\tt AACATAGTTGTTAAAGCTGTGTAAAGTTTTAGTGTTGTATTTTGC}$
35	425251	${\tt TCAACTTCTAAATTCGCTGTTAGAACCAAATAAATCAACTGAAAAACTGA}$
	425301	${\tt CATTATCTTTAGAGAAATTATTAGTTTGTCCTTGTAAAAATCGCATTAAT}$
	425351	AAAACTTCTGCTTGTTTTCAAAATTACGTTTGTTAGGTGATGAATTCTC
4 0	425401	TAAAAAATAATTACCTCCATCAATATGAAATGCATATATGGCATCATCAC
70	425451	$\tt CTCTAACATAAACAGGTTTCTGTTGCTGTTTTTGAGTTGTCTTTGAACTT$
	425501	AGACTAACTAATAAATTACTTGTTACTACTTGTGCTTGAGATGAATTTGA
	425551	${\tt TTCCATTCTAACTGCATCAAAAATAGTTGCAGTTTGACTACTATTATTTA}$
4 5	425601	AAGCTTGTACTTGTTTTCAAAAAGACTGCGTGTTACTACTATTATCACTA
	425651	CcAGAAGAAGAAGCGAGGGATTAATTTTTAAAAATTCACTTTTAACATT
	425701	AAAACCATTATTGTCTGAAGTAACTTCTTGACTTTTTGTCATAGCACTCT
	425751	TCATCATAACTGTTGTTGCACTTGAACTTTTAATAAATTTATCAAGAGGA
50	425801	TTTAAATTGCTACTAGTTCCACCTGTTGTTGTTGTTGTTGTTGTTGT
	425851	TGTTGTTAATTCTGTTTTATTATTCAGTAAGTAATGGTATTGATCAATAA

	425901	${\tt CTGCAGCAGATAAGTTAACAGTTTTTAAAACAGAGAGAATGTTATTTTA}$
5	425951	${\tt CTAATTAAAACTTTGCTTGCACTATACTTGTTTTCAAAGTCAAGTAAATC}$
	426001	${\tt ATTTCTGGTATTAGTAGCAGCTGAACTTTGTGATGAACCACTAGAATTAG}$
	426051	${\tt CAGTTTGTAATTGTTTATCAAACTCTTCAAATAATTTTGCAGAGTTTGTT}$
	426101	${\tt TGACCACCACTTTCACTAGGATCTTGAAAAGCAGGAAAGTTATAAGAAAG}$
10	426151	${\tt ATTTAGATTGGAAGCTCCAATTGCATTTTCATCATAAATACTGCCAAGTC}$
	426201	${\tt CAGCAATTGGAGATTGGTAATTGAAAGAAGCTTGATTTAATAAAAATGGG}$
	426251	${\tt TTTTCTTCTATTAATCACTGTGAAAATAAATAAGCTTGAAGATTAGTAAA}$
	426301	${\tt AAAATCACCATTTACATCATTTAAATTGCTGTTAATAAACTTAAGTTTAT}$
15	426351	${\tt TTTCTGTTTTTCAATGTTTTTTTTAGTTGTTGCAACGCTTGTATCACTT}$
	426401	${\tt GAATTCACTAAACTAACATTTGCACTAATGTTATTGAATATTAAAGATTG}$
	426451	${\tt AAAATCAGTAATTAATCTATCATAGAGTTTAAGTTTTTTCAACTTTCTT}$
20	426501	${\tt GATTACCACCGAACTGATCATATTCTTTTTGTACTTCAATAGGTCACTTT}$
	426551	${\tt ACTCTATCAGCACGTTTCTTTTCATCTATCAAGTTATCATGTTCATCTTC}$
	426601	${\tt AACATTTCTTCAAATATCTTTAATCGATTAGAGATGTTTCTATCTGCAT}$
	426651	${\tt TTGCTTGGTATCATTTTTGTAATGCTGATCCAAAACTAACACGTAAGATA}$
25	426701	GAATCAACACCACTACCATCATTTAAAGCAGACTTTAAAACTACATCTGG
	426751	${\tt GTTTATGATATTTTGATCACTAAAACCAATTAGTTTTTGGGATCGATTGA}$
	426801	GAGTAGGAAAAGATTAGCAGTGTTTATTGTGGAACAGGCTGTAATTATT
30	426851	GCTGTTGCACCCACTCCACTAAATGCTAAAGCAATTAATGATCAGCGCTT
00	426901	AAAACGATGAGCCATCTTATACTAGCAGTTTGATAATTATCACATTTAAA
	426951	AATCTAGCTAATATAATTGCAAATCTAGATTATTAAAAAAATGTATATTAA
	427001	TTATAAATAAGTTAATTTTCTAATTTAAGCATTAAAAAAAGCTTAAATCT
35	427051	CTCTAATTAAAATGCTTTACCAGAAAAATCAAAAAATTAGTTTTTAGCTAG
	427101	CTGTTTGTTGAAATGAATTTTTATTAGCCAATTGTTGAACAGTTAGTT
	427151	TTTATTTGTTCAAATAATGCTGGCTTTTCTGATAAAACATTTAATAATTT
40	427201	TTCTTTACCAACAGCAATGCTTTCATTGTTAAAAGAATAAGAATTTCCAG
	427251	CTCTTACAACAACATTAAATTTAAGTGCTAAGTCAATAACTTCATGTTCA
	427301	TGTACAAAACCACGGTTAAACATGATTTCTAATATAGCAACACCAAAAGG
	427351	TTTAGCAATCTTATTTTTAGATACCATTACTTTTGTTTTTATGCCAACAT
4 5	427401	AATTGTTGAATTTATCCTTAAGTAATTCAACACGCTTAGCTTCCATTCTT
	427451	AATGAACTATAAAATCTTAGAGCTTTTCCTCCTGTTGTAACTTCGTTATT
	427501	TCCAAACATCACTCCTGGTTTTTCGCGTAACTGATTAATGAATAAAACAC
50		AAGTTTTAGAATCTGGTAATATCGATTGTATTCTTCGCAAACCTTTTGAC
50	427601	ATCATTCTTGCATGCAAGCCAATAGTTTGTTCTTCAATTGTGCCTTCTAA
	427651	CTCTTGTTTAGGAATTAACGCTGCTACAGAGTCAATAACAATTAAAGATA

	42//01	TCTTGTTTGTTTTATTATTGTTCGTTTTGTGTGTTTTGTCGT
5	427751	TGCCTAGGATGAGCAATCAAAAGTTTATTTAGATCAATACCAATTGATTT
	427801	AGCATATGCTAAATCAAGTGCACCTTCAGCATCAATATAACATGCTGTTT
	427851	TACCTGCTTTCTGAAAACTAGCGACTGCATTTAGTGCAATAGTTGTTTTT
	427901	CCAGATGATTCATTTCCATATAGTTCTACTATCCTACCTA
10	427951	ACCAGACCCTAATGCTTCATCTAAATTTAAACTTCCAGTTGAAATTGTTT
	428001	CAATTTCACTGTTTTCTTTGCATCAAAAAAAATCAAAACTTGTCAAATTA
	428051	TTACTTTCAATAAACTACTATTTTTTTTGAGTATTTTTCTTATTAATTA
	428101	TTCTLTTTGAGCCATCTTTCATTACACCTTATAAATAAGTGCAAAAAAA
15	428151	AAAAATGACATTTTTTTTTTTATTAGAAATTTTGTTTATTTTTTAATTTTTCTT
	428201	${\tt AAAAAAATCTCTTTTTAGGAGTTTATTTTTTTTTATATTAGTTAACTTGTTTTTTTT$
	428251	GGTTTGTTGACATAAACACTCCTAAAACTCCTATATATTATTAGTAAATA
20	428301	TATAGATTTTGTTCAAGTCTACTCAGGTGAAGCTTACATACA
	428351	${\tt AAGTGGCTCAAATAACCAGATTAGTTTTGATTCAACTAGTCAAGGTGAAA}$
	428401	${\tt AACCATCCTACATCGTTGAGTTTACTAATTCCACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAATGTTGGCATCAACCAAC$
	428451	TGAACGATGGTGAAAAAGTATCAGTTAGATGTACCGAATGTTTCTAGCAA
25	428501	CATGAACCAAGTGTTGCAAGAATTGATCCTAGAACAACCTTTGACTAAAT
	428551	ATACCTTAAACAGTAGTTTGGCCAAACAAAAGGGCAAAAAGCCAGATAGAG
	428601	GTACATCTTGGTTCAAATTCAAATCAGTGACGATCGATGCGCAACTCCAT
3 <i>0</i>	428651	TGGCTTAAACAACAATCCCAGCCCCAATGCTTCAACTGGATTTAAACTCA
50	428701	CTACCGGCAATGCATATAGAAAATTAGATCAATCCTGACCAATTTACCAA
	428751	$\tt CCAATTGATGGGACCAAGCAGGGCAAAGGGAAGGATAGTAATGGGTGGAGGAGGAAGGA$
	428801	TTCAACTGAAGAAAACGAAGCTAAAAATGATGCGCCCCTAAGTACAGGAG
35	428851	GGGGAACATCAGACACGCTTCAAAATTCACCAAGTACCTCAACACCAAA
	428901	${\tt CAAGCATTGGAAAGGATCGGTATCTTGTTTGATGGGGATGGAATGAGAGAATGAGAATGAGAATGAGGAATGAGAGAATGAGAGAATGAATGAGAATGAGAATGAATGAGAATGAATGAGAATGAGAATGAGAATGAGAATGAGAATGAGAATGAATGAGAAT$
	428951	TGTGGTTACCCAACTCTATTATGCTTCTACTAGCAAGCTAGCAGTCACCA
40	429001	ACAACCACATTGTCGTGATGGGTAACAGCTTTCTACCCAGCATGTGGTAC
•0	429051	TGGGTGGTGGAGCGGAGTGCAACAACTGATTCATCAAAACCCCACCTG
	429101	GTTTGCTAACACCAATTTAGACTGAGGGGAAGACAAACAA
	429151	TAGAGAACCAGTTGGGGTATAAGGAAACTACCAGTACCAATTCCCACAAC
45	429201	${\tt TTCCATTCCAAATCTTTCACCCAACCTGCATATCTGATCAGTGGCATTGACCCAACCTGCATATCTGATCAGTGGCATTGACCAGTGACCAGTGACCAGTGACCAGTGACCAGTGACCAGTGACCAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTGACAGTACAGTGACAGTACAGAAGTACAGAAGTACAGAAGTACAGAAGTACAGAAGTACAGAAGTACAGAAGAAGAAGAAGAAGAAGAAGAAAAAAAA$
	429251	CAGTGTCAATGATCAAATCATCTTCAGTGGCTTTAAAGCGGGGAGTGTG
50	429301	${\tt GGTATGATAGTAGTAGTAGTAGTAGTAGTAGTAGCCAAAGACCAAGCPAGCAAGCAAGCAAGCAAGCAAGCA$
	429351	$\tt CTTGCTTGATCAACAACAACTAGCTTAGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGTAAAACGGGGTATAAGGATAGGATAGTAAAACGGGGGTATAAGGATAGGATAGTAAAACGGGGGTATAAGGATAGGATAGTAAAACGGGGGTATAAGGATAGGATAGTAAAACGGGGGTATAAGGATAGGATAGGATAGTAAAACGGGGGTATAAGGATAGATAGGATAGAT$
	429401	${\tt TTTGGTGACCAACGACACGGGATTAAATGGTCCAATCAAT$
	429451	${\tt CAATCCAAGACACCTTCTCATTCGTTGTTCCTTATTCGGGGAATCATAGTCATTCGTGGGGGAATCATAGTCGTGGGGGGGG$

	429501	${\tt AATCAAATTTCATCAGGAACCATTAAAACTGCTTATCCAGTGAAAAAAGA}$
	429551	${\tt TGAAGCTTCCCAAGTAGCGATCAATTCCTTGAATCAACCTACGCCGTTGA}$
	429601	${\tt ATAGTTATGGAAGTGGAATCTTCTTCCTCTTTCAACCCCAACCCCAAAGGTT}$
	429651	${\tt GCAAAAAGATAGTCCGGTGAAGGATTCAAACAAAGACAGTGAGAAACTCA}$
	429701	$\tt GTGAAACAACTGCTTCATCCATGAGTGGTATGGCTACATCTCCTCGCAAA$
0	429751	${\tt GCCCTCAAAGTGGAGGTGAAAAAAACAAAGTGGATCAAGTGACACCCTCAC}$
	429801	${\tt CAAAAACGACTTTGCTAAAAAGCCACTGCAGCATAAGAACAGTAGTGGGA}$
	429851	${\tt CAGAGGTGAAGTTAGATGCGAGTGGGGAGTTTGGTGACAACAAAGCCTGA}$
	429901	${\tt AAACCATTGTTGACTACCGAGCAAATAGCAAGAGAGAGAG$
5	429951	${\tt GCCAACTCCCCCTCCCCLTCTTCTTCTTCTTCTTCTTCTTCTTCT$
	430001	${\tt TTCTTCTTCTTCTACTACTACTACTACTACTACTACTTCCT}$
	430051	${\tt CAACCCCCTCCCCACTTTTTCTAACATCAATGTTGGGGTTAAATCAATG}$
0	430101	${\tt ATCACTCAACATTTAAATAAAGAAAACACCCGGTGGGTGTTTACACCTGG}$
	430151	${\tt TAGTACACCAGACATCTGAACGGGAGCAGGGTATCGCGTTCAAAGTGCTA}$
	430201	${\tt ATCAGAAAAACGGCATTCCTTTTGAACAGGTGAAACCTAGCAATAATAGT}$
	430251	${\tt ACCCCCTTTGATCCCAATTCAGATGATAATAAAGTCACTTCAGGTAGCTC}$
25	430301	$\tt CTCCAAACCAACCACCTATCCTGCTTTACCCAACAGTATCAGTCCCACCA$
	430351	$\tt GTGACTGAAGCAATGCGTTGACTTTCACTAACAAGAATAATCCGCAGCGC$
	430401	${\tt AATCAACTGTTGCTCAGAAGCTTACTAGGAACTATCCCGGTCTTGATCAA}$
00	430451	${\tt TAAGAGTGGAACGGGAGATGAGTTTAACCATACGAGTGAGCAGAAGTGGG}$
•	430501	${\tt ATAAAACTGAGACCAAGGAAGGCAACCTCCCAGGGTTTGGGGAAGTGAAT}$
	430551	$\tt GGGTGAAAAATAGTAACTATTTTTTAAATTAATACTCTTCAGCAACTGT$
	430601	${\tt TTTGCTACCTAAGAAAGTTAACTCTTCATCAGTTAAAAATCCTGTTCCTG}$
35	430651	$\tt CTGGAATTTTCCACCAATAATAACATTCTCTTTTAAACCTAAAAGATAG$
	430701	${\tt TCTACTTGGTTCTTAACAGCAGCATCAGTTAGGATTTTTTTGGTATCTTG}$
	430751	${\tt GAAGGATGCAGCACTTAAAAAGGAGTTAGATTTACTTGCCGCTTCATCAA}$
10	430801	${\tt TTCCAAACACCTGATTAATTGCAATAACAGGCATCTTTCCAGCTAAAAGT}$
•	430851	${\tt AAGCTCTTATTTAGTTCATTGAGATAATGGCTATGCACTAACTGACCAAC}$
	430901	${\tt AAATAAATTGCTGTTACCTGCATCTGTTACTTGCAACAAATTAGTTAG$
	430951	${\tt GTCTGATAATTATCTACATACTTATCAGCAATATCTATCCCTTGAATC}$
15	431001	$\tt CTATACACTTTTTGGATCTCTACAATCATGTATTGTCTTACCCTTTGGAT$
	431051	${\tt ACCTGCAATTCGCAAAAGTTGTTTAATATCAACAGAACCTTCTGTAATCT}$
50	431101	${\tt TAGAACCTGGTGAAACTTGATCACCAACATGAACACGTATTTGAGCACTG}$
	431151	${\tt AAAGGGATAGTATAAATCCTCTCATCAACGTTTGATTTAATCACTACTTC}$
	431201	$\tt CTGAGCGTTTTGAACAGTAGTAATTGATTTAACTGTTCCTTTCACTTCAG$
	431251	${\tt AGATAACTGCTTTTCAAAATCTTTAGGAGTAACTACTTCAAAGATCTGT}$

5	431301	${\tt TTTAAACGTTCAAAGCCTTGTGCTAAGTTGTTTTCAGTTGAAACTCCCCCCCC$
	431351	${\tt AGTATGGAAAGTACGCATTGTCAATTGGGTCCCAGGTTCACCAATTGATT}$
	431401	${\tt GAGCAGCAATCACCCCAACAGCAGTTCCCAATTCCACCAACTTACCAGTT}$
	431451	${\tt GACAAGTCAATGCCAAAGCAGTATTGACAGATACCATTTTCCCTTTCACA}$
	431501	${\tt ATAGATAACAGATCTAACTAAAACTTCTTTAATAGATGTTGCACAAATCT}$
10	431551	${\tt GTTTAGCTAATTGCGTTGTAATAAGACTGTTAGCTTCTACAATAGTTTTT}$
	431601	${\tt TGTGTTTCAGGATCAACTATAGGAGTAATTGAGTAGCGATTAACAATCCT}$
	431651	$\tt GTCAAATAATGATTCAATCAAGGATTTGGTTTTGGTTTCAACAATTGCTT$
	431701	${\tt CAACAACAATTCCTTTTCTTGTTCCACAATCATCATGGTTAATAATTAAT$
15	431751	${\tt TCATGAGTAGCATCTACTAGCTTTCTTGTCATATAACCAGACTTTGCTGT}$
	431801	${\tt TTTCATTGCAGTATCTGTCATCCCTTTTCTCGCTCCATAAGAAGAGTTGA}$
	431851	${\tt AGTATTCATTAATGGTCAAACCTTCAAAAAAGGAGTGTTTAATAGGAACT}$
20	431901	${\tt TCTATCGTATCTTAATGATCTTAGATTGGTTATTTCTTTC$
	431951	${\tt GCTTTTAGACATTAAGCCTCGCATCCCAAATAACTGGGTAAAGTTAGAAA}$
	432001	${\tt TGTTACCTCTAGCACCTGAATCAGCCATTACCACAATGGAATTATCACGG}$
	432051	${\tt TACTGTTCTTGTTTAATTAAGTTTTGGATCTCATCAGATACTTTTTCTTT}$
25	432101	${\tt CACATTGTTTCATAACTTCACAACGCGTTTATAACGTTCATCATCGGTTA}$
	432151	${\tt ACAAACCCTTGTTATAAAACTGTTTGTATTTCAGCACCTGTTGATCAGCA}$
	432201	$\tt CTATCAAAGTAATTTGTTTATTGGTGTACTTAGGGATATCAAATACTGA$
30	432251	${\tt AACAGTAGTTGAAGAAAAAGTAGAGTACTTAAAGCCAAGTGCTTTGATAT}$
50	432301	${\tt TATCAAGTGTTTTAGGAAGGTCTTTAAATTCCAATAAAAGATAGAGTAGA}$
	432351	${\tt TCGATTAACTTGGAAATAACCTTTTTGGAAAATGCAGGGATAATTTGATG}$
	432401	$\tt CTTTAAAATTGATTGTCTTACATCTTCTCCCTGTTTCACAATGAACTTTT$
35	432451	${\tt CGGGACATGCATTTCATCAAATTCCCCGTCATTAATATAAGGAACATTA}$
	432501	${\tt TTGCCTAAAACATCATTAAAGATAATCTTACCAACTGTTGTTATTAAAGT}$
	432551	${\tt TCCTTGGCATGCAAACTTCTTGTTGGGAAATGCTTTAGTACTTATCCCTA}$
4 0	432601	${\tt CAATAGCATGTAAATGAACCTTTTGACTTTCATAAGCAGCACGTGCTTCA}$
***	432651	${\tt TAAACTGTGCTGAAGATAATCCCCTCTCCCAACTGTCCTTTTCTCTGT}$
	432701	${\tt GGTTAGATAATAGTTACCTAAAACCATGTCCTGAGTAGGAGTTACAATAG}$
	432751	$\tt GTCTTCCATCTTTCAAACCTAAGATATGTTTTGATGCAAGCAGAACAGCT$
45	432801	$\tt CTTGCTTCATTAACTGCATTCTCACTTAAAGGAACATGAACTGCCATCTG$
	432851	ATCACCATCAAAATCAGCATTAAATGCAGTAGTTACTAATGGGTGTAATC
50	432901	TAATTGCTTTACCATCAACAATTCTTGGTTCAAATGCTTGGATCCCTAAC
	432951	CTATGTAGGGTTGGAGCACGATTTAGTAAAACGGGACGATCTTTGATAAC
	433001	ATCATAAACTATTCCCCAGATAAGATCATCCTGGTTTTTAATCATATCTT
	433051	CAGCTTGTCTGATGGAAGCGGCAATTGGTCTAATCTCATTACCATTTTCA

	433101	TCAAACITATIGATCAATCCATGGATAATAAGGGTTTAAACAGCTTTAA
	433151	${\tt GATCATTAGTGCTGGGATCCCAACTTCATACATCTTCAATTCAGGGCCAA}$
5	433201	${\tt CCACAATTACACTTCTACCTGAATAATCAACTCTTTTACCAAGTAAGT$
	433251	${\tt TGTCTAAATAAACCTTGTTTTCCTTTTAAACGATCTGTTAAAGATTTCAA}$
	433301	${\tt TGACCGTTTGTCTTTGGAAAGTGATGGTTTATGACGTGAAGAGTTATCAA}$
10	433351	${\tt ATAAAGCATCAACAGACTCTTGTAAAAGTCTTTTTCATTGTTAACAACA}$
	433401	${\tt ATAGAAGGTACCATCTTCCAAAATCCTTCTTAATCGGTCATTTCT}$
	433451	${\tt AATGATTACCCTGCGGTAAAAATTGTTGATGTCACTGGTGGTAAACTTAG}$
	433501	${\tt CACCATCAAGTTGGATAATAGGTCTGATATCAGGGGGGATAACTGGAACA}$
15	433551	${\tt GTATGTAAGATCATGTTTTTAGGATGAAGCTTAGAATTTCTAAACCAACT}$
	433601	${\tt AATAGTTTCCAGTTGTCTTAAGATCTTCTTAACTTTAGCATCTTCAACAC}$
	433651	${\tt TATCTTTCTTGGCTTTTCTTAAAGCATCATTTAACCTGCTAAATTCCAAG}$
20	433701	${\tt TTAAGATCGATTTATTAAGCAATTCCAAAATTGCTTCAGCCCCTATTCC}$
	433751	${\tt AACCCTAAAACCAGTGTACTTCTTAATGTAATTAAAAGCATCATTTAGAG}$
	433801	${\tt AAAAGGGGAGAGAGCTGTTTTTTAAACTTTCATAAAAGATTTTTCCCTTA}$
	433851	$\tt CGGTAATCTTCACTACTTTTACTTTTAATGAGATTTCTGAAGATATAACC$
25	433901	${\tt TATCACACGACGCATTTTTTGTCGTGTTGAAAGTGAACCCTTACCAGTTA}$
	433951	${\tt AGTCCAAAACTTCTTTGAACTTAAAAGGCATGATTTTATCATCTTTGATC}$
	434001	${\tt TTACCTGTATCAAGTACTATGTAGTTAACAAAGTACAAAACCTGTTCAAC}$
30	434051	${\tt CTCTTTGTAAGAGATGTTTAAAACTAATGATATTTTGGAAGGAGATGGTA}$
	434101	${\tt ATTCTTTTGACATCCAAATGTGAGCTACAGGACTCACAAGTGCAATATGT}$
	434151	$\tt CCCATCCTTTCTCTACGTACAATAGATTCAGTAACTCACACCCCACAGCG$
	434201	ATCACACCTCACACCACGGTATTTAATCTTTTTGAACTTGCCACAAGCAC
35	434251	ATTCATAGTCCTTAACAGGTCCAAAGATTGCTTCATCAAACAAGCCTCCA
	434301	GGTTCTGGTTTTAATGATTTATAGTTAATGGTTTCAGCTTTTGTAACTTC
	434351	CCCTTCAGATCAGTTCAAAATGGTGTCATTGGAAGCGATGGAAAGTTTAA
40	434401	TTGCTTTAATGTTTTTATAAAGCTTGTTATTTCTTTTATTACGTCTTGTT
	434451	GTTGTCATTGTTAATTTCTAATAACCCTCAGTGTCAAAATTCAAAATCATT
	434501	GAAAAATTCATCTTGTTCCCCATCACTTTGCAAGATGGAAACATTATTGG
	434551	AGTCTTGTTGGGTGTTGTCATCATAGATAAATGAAACAGATAAAGCCAAG
45	434601	CCCTGTAATTCTTTTGTCAATAATTTAAATGATTCAGGGATACCAGGCTC
	434651	TGGGAAAGCTGCACCTTTAACAATAGCAGCATAAGCCCTATTTCTTCCTT
	434701	GTACATCAGCATTTAATGGTTAAAAGTTCTTGCAAGTTATAAGCAGCT
50	434751	CCATAAGCTTCTAATGCTCACACTTCCATCTCACCAAACCGCTGTCCACC
30	434801	ATTTTGCGATTTACCACCTAATGGTTGTTGAGTGATCTTAGAATAAGGGC
	434851	CAACAGCACGAGCATGGATCTTATCATCAACCATGTGATTCAGCTTCATC

	434701	ATOTACATAMITECANOTOMATAGGETTICANATGGETTICACTCC
5	434951	ACCATCAATGAGTTTAAACTTACCCTGATTTTTTTTGGGGATCTAATCCT
	435001	CTTCTTGCATAACATCTTGGAGATCTAAGAAGTTCACTCCTTGGAAAAT
	435051	GGGGTTGCAATTTTGTAAATAAGATCATCAAAAGACATCCCTATCTCTT
	435101	CAAAACTAAACTAATGTCACTGTTATCGAGTTTTTCAAGTGCTTCTTTT
10	435151	CACTTTTAATATTGCGATCATTGATTTGGTTTTTTTAAACCTTTAATTAA
	435201	CTTTCAACCCTTGCTTGAGGTTGATTGATTTCAATGGCAAACTCCTTAG
	435251	TTTATTTTGATCAAAACAACTACTAATTAAAGAACGAACTGCTAGCTTG
	435301	GTGCTGCATAACCCAAGTGGGTTTCAAAAATTTGTCCTATGTTCATCCG
15	435351	CTAGGAACACCAAGGGGGTTGAGCAGAATATCAACTGGGGTTCCATCTT
	435401	TAAATGGGGCATATCTTCAATAGGCACCACTTTAGAAATAACTCCTTTA
	435451	TTCCGTGTCTACCAGCTAATTTATCACCAATTTGAATCTTACGTTTTTG
20	435501	ACCACATAAACCTTGATCATTTCAATCACACCATCATTAAGTTCATCACC
	435551	ATTAGCAATTGAAAAACGTTTTACAGCTGAAACAATACCATCCCCACCA
	435601	GGGAAACTTTAAGTGAAGAGTCTCTCACGTTTTGAACACTTTCAGGGAAG
	435651	ATGGCTTTAAATAGCTTTTCTTCAGGAGAGACTTCGACTTGACCTTTAGC
25	435701	GGAAACTTTACCAACCAAAACATCCCCTTCTTTAACTTCAGCACCCACC
	435751	TAATGATGCCATTCTCATCAAGATAGCGTTTGTTTGCATCACTAACATTA
	435801	GGGATATCACGGGTAATTTGTTCATCACCATTTTTAGTAGACAAACATTC
30	435851	AGCAACATACTCATTAATGGTTAATGAAGTGAGAATATCTTCCTTAACTA
	435901	ATCGTTCTGAAATGACAATTGCATCTTCATAGTTATAACCATTTCAAGTT
	435951	GTAAAAGCAACTAAAACATTCTGTCCTAATGCCAACTCACTC
	436001	AGCAGGGCCATCAACAATGATTTCATCCTTATTAACCCTTTGGCCTATTT
35	436051	CAACAATTGGTTTGTGGTTATAACAAGTATTTTGGTTGGAACGTTCAAAT
	436101	TTAACTAGGTTAACTGTCTCTTTTTTAGAACTATCACTTGTAATAATAAT
	436151	CTTACTGTTATCAACATAACTAACAACACCTGAGCAAGGAGGAGGACATTG
40	436201	TTAAACCTGAATCACTAGCAATTTTGTGTTCTTGACCAGTACCTACTGCA
	436251	GGAGCATATGGCTTATTAAAGGATAGGCCTGACGTTGCATGTTGGTTCC
	436301	CATTAATGCTCTAGCTGAATCATCATTTTCCAAAAAGGGGATTAAAGAAG
	436351	AACCAATGGAAACAACTTGGTGTGGTGCTACATCAATGTAATCAATC
45	436401	AAAGGATCATAAAGtCCTTGCATAGATCGATACCTACCAATAATTTCCTT
	436451	ATCTAAGATCTTGTTATCGTTACTAATATTGACAAGTGAAGAGATCTCAG
50	436501	CAATAATATGTTCATCTTCTCTAAGCGCAGTTAAATATTCCACCTCATCA
	436551	GTAATTACCCCAGCTTTGATTTTGCGATAAGGTGCCATTAAAAATCCGTT
	436601	${\tt TTCATCAATCTTAGCAAAGCTAGCTAAAGACATGATCAACCCTATGTTCACCACCCTATGTTCACCACCCTATGTTCACCACCCTATGTTCACCACCACCACCACCACCACCACCACCACCACCACCA$
	436651	${\tt TCCCTTCAGGTGTTTCAATAGGGCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCCAAATTCTACCGTACTGAGAATAATGCTACAATGCAAATTCTACCGTACTGAGAATTCTACAATGCAAATTCTACCGTACTGAAATTCTACCGTACTGAAATTCTACCGTACTGAGAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAAATTCTACAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAATTCTACAATGCAAAATTCTACAAATTCTACAATGCAAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAAATTCTACAAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAATTCTACAAAATTCTACAAATTCTACAAAATTCTACAAATTCTACAAATAAAATAAAAATAAAAAA$

	436701	${\tt ACATCACGGATATCTAAATTAGGGTCCTCTCTTGATATTCCCCCAGGTCC}$
5	436751	${\tt CATTGCTGAAATCCTTCTTTTATTACTCAATTCTGATAAAGGGTTTTGGT}$
	436801	${\tt GGTCTAAAAATTGGGTTAATTGGTGGGTATTGAAGAAGTCTTTAATCACA}$
	436851	${\tt ATTTGAATTGGTTTTGAGTTGATTAAAGATTTAATAGTTAATTCCTTTTT}$
	436901	${\tt TTCACCTTGTTCAATAACCTGACCCTCTTCATTAATTTGCTGGCCACGGT}$
10	436951	${\tt TAACTCCATCAGCAATAGTTAACTTTTCTTTTAAAAAGCGCTCCATTCTA}$
· •	437001	$\tt GTGAAGCCGCTTTCTAATTTAGCAGTAATTAATTCATTAACTTAAC$
	437051	${\tt CCGCTTATTACCAAGGTGATCAATATCATCATATTTACCAATTCCATAAG}$
	437101	${\tt GTAAATTAATCACATAACTAATTGAAGCGATGAAATCACTGAGAGTCATT}$
15	437151	${\tt GCTTTGTTCAGATCATTTTCGTTATGGATCCCTATAACTGGTACTGAAAC}$
	437201	${\tt ACTAAGATTATCATTAGTGATATATACATCTATCGTTTCATAAAAGAGTG}$
	437251	${\tt ATTCTTTTGCTAAATCAACAGCCTTACCATCAGTTGTAAGTTGCATTTTA}$
20	437301	${\tt TTAACAAAACTAATTTCATTGTTCTTAGCAGCTTGTTTGATTTTGTCAAT}$
	437351	$\tt CTCTTCTTTTAAAAGTAAAGTACCTTTTTTTAAAAGTAGCTTGCCATCTT$
	437401	${\tt TTAAGAACAAATCACATGCCAGAGTTTTTTGATAAATACGTTCTGTTAAA}$
	437451	${\tt CGTAACTTTCTAGATACTTTGTATCTCCCTGCATTAGAGAGGTTGTACCT}$
25	437501	${\tt CTTGTTTCTAAAAAAACGCGCACATAAAAGTGCATGGAAACTCACTTCAT}$
	437551	${\tt GACACTCTTCAGTGTTTTCAATATCACGCAGTGAAATAGAAAGTTCATTG}$
	437601	${\tt ACAATGTGTTTAGCAGCTCTTTCAGTAATAACACTATCCATTTTGTTTTC}$
20	437651	${\tt CATTTCCAGTTCAAGTGCAGTTAAACTAGAATCATTTGGACTTGTTTGT$
30	437701	${\tt TTAGCGCATTATATTGTTTCTCAAGCGTTACATATTCATTAACAAGTGAT}$
	437751	$\tt CTTAATTTCTGATCAGAAGCGATCCCTTTTCTTCTTAAATCAGTTTTACC$
	437801	${\tt ATCTCTAAATTCTTTTAAAAGGTTTTTGATTTCAGGATCAACATTGCTTA}$
35	437851	${\tt AAAAATCCTTAGCATTGTAAATTTCCGCTTCCAATGAACGTTTGATAAAT}$
	437901	${\tt TCATTGTTTTAAAGATTTTAAGGATCTCACGATTATTTAAACCAAACGC}$
	437951	${\tt TTTTAAAAGTGTTGTAATAGGGAAAATCTTAGCACCTTCTCTTACCGCAT}$
40	438001	$\tt CTCTTAAAAGAATTTGTACAAAAGCATCTTCAATCTTTTTTTT$
40	438051	ATGTATATAAGCATCACTGAACCATTAGCAGGTAAAACCTCACAAACATA
	438101	ACCTTCCTGTACTCTTTTACGGGAGTTGGATAGTTTTAGTTGGGATTTTG
	438151	TTAGCATGTATATCCCTGGAGAACGGGTTATTTGGGAAATAACAAACTTT
45	438201	TCTATCCCATTGATAATAAAAACCCCATCATGGGTTATTAAAGGCATGCT
	438251	AGCTAAAAATACACCATTTGTATTGCTAGCAATATTTTTCTTTGATTTCC
	438301	GTGCTTTTTTAACTGTTCCTTTATCATTATCAACTAATTCAAGATCAGCA
	438351	TAAATACCAACTTCATAAGTTTTAGATTGAGCACGTGATTGTGCTTCATC
50	438401	ACGTTCTGGTTCAGTTCTGTGTAATCCCCTAAAATTGATAGTGTAGCGAT
	438451	CATTAGGGGATTTGATTGGAAAATATGAGGCAATTAATTTTTCAAGATCA

	438501	${\tt TGATCTAAGAATTTTTGGTAGCTTTTAATCTGAATATCAGCTAAATTTGG}$
_	438551	${\tt TTGGATAAAATTGGTCTCAATTTTGCCATAATACCTTCTGGTAGCTGTAG}$
5	438601	${\tt GGGAATAACGTTTTTGAAAGAAATTAGATTTTTGTGACATTTGTGGGGTG}$
	438651	${\tt AAAAGCGGATCAAAACATTAAAAAGCCACTAACAGCGTTATAAAACGCAT}$
	438701	${\tt GCTAATGGACTTAATCACAGTTCGCTAAATTATATTAATTTTTTAACTTG}$
10	438751	${\tt TTCAATAAAAGGCTTAAAATCAAAGTTCTCATGATAACCGTTGACTAAAA}$
	438801	$\tt CTGTTCCTTTAACATTAAGACCGCTAAAACTTAAAAATTTATCTAGTAAT$
	438851	${\tt TCTAGAACAGTTTTACCCCCACCCGCAGTTGCTGGAGTTACACAACAAAT}$
	438901	${\tt AACTCCATTAAGACCTTTTAAAAATTGATTTCTACCATACTGCTCATCACCCTCATCACCCCTCATCACCCCTCATCACCCCTCATCA$
15	438951	${\tt GAGTCATCCAGTCAATGATGTTTTTAGCAAAAGCAGGGATAAAACCGTTG}$
	439001	${\tt TGTTCAGGGGTAACAAAAATTAAATTGCTATGTTCTTTGATTTTTCTAAC}$
	439051	${\tt TAAAGTTTTAATTTTGTCAGGAAAGTTAGTTGCTTCTAAATCAACAGAAT}$
20	439101	${\tt AAAAATCAACTTGATAGTCTTTTAACTCAATCAATTCACAACTTAAAGAA}$
	439151	${\tt TGTTTTAATTCATTAGCAAATTTCCTGTTAATGGAATGTTGCGAATTGAATTGGAATTGGAATTGGAATTGGAATT$
	439201	${\tt GAGCATTAAAATTAATGACTTTTGATCTTTTGACATAAATTAACACTTAA}$
	439251	${\tt ATTTTAAATAAAAGTATTTAAAAACAATTTAATAGAAGCGTATAGCTAT}$
25	439301	${\tt TTTTTCAATGTTGATAATTATTGAGAAAATAGCAACCTTGATAAGTCTT}$
	439351	${\tt AATATCAGCAACCTTAGTATCTAAACTAACGGTTGGTAAATTGGGGTTTT}$
	439401	${\tt GTTCTTTATTTCCTTCAAGTAAACAGATACAATTCTCATCAAAATTAAAA}$
30	439451	$\verb CCTTTCATTATTTCAACAATTAAGTGGAATTCCAAATCAAAAATCAAAGC \\$
	439501	${\tt ATCAACTTTAATTTAGTAGGAGAATTTGAAAATACTTGTAATTTGGAAT}$
	439551	${\tt AATGCAGTAAAAACTGCTGATTAAAATCTTTAACAGTTTGTTGTCAAATT}$
	439601	${\tt AAGTTCTTTTGCTCAAAGTTAGGATGCTTAATGTTTTCTAAATTTTTTAA}$
35	439651	${\tt CAAGTATTTATGAGGCAAGATAAAATGGCTGGTGATTTTTAACTTTTTT}$
	439701	${\tt CAATTGTGAATCTGTCTTGAAAACTAGTGAAACTAAAATCAATGTTACTT}$
	439751	${\tt TTTTCAAAGTTAGTTCATAACCAAACACCACCGTTTAGTTCAACAAACA$
1 0	439801	${\tt TACGTTATTTTAGACTTGTGCTTTTTTTCTAATTTTCTAACTAA$
	439851	${\tt AAAACTTATTTGAAATGATCTTAAAGAATAAACTTCATGTTTTATTTTT}$
	439901	${\tt TGTTTTTAATTTCTTTAATTAGCGAATCAGAAAGCTTAATAGTTGTTTT}$
	439951	${\tt TTCTTCTGGTGAATTAATTAATAAAAAAACTATTTTCAAACCCTTAAAAG}$
15	440001	${\tt TTTTCAGTATTTTAAAAACTTATTAATTTCTGTATCTGTATTTTTGGTT}$
	440051	${\tt TTTTCAACAAAAGCAAATACAGTATCGTTTTGACTTTTATTTCTTAATGC}$
50	440101	${\tt TAAACCAAATGCACTTCACAAGTTATTATCAAAACCTAAAAAAGGGAAGT}$
	440151	${\tt TATCAAAATAAATCTTTTGATATATTTGGAAGACTTACTT$
	440201	${\tt AGATAATTTACTTTTTAGATCTAACTAAAAATTTAACAAAATCTAGATA}$
	440251	${\tt TTGTAATGTTGATAAAAGTCCAACCTTATTGCTATTTTGAAAAAAAA$

	440301	${\tt AAGCTAATAGGCGTTGCTCATTAACGAGGGTTTGATCATTAATTTTATGA}$
5	440351	${\tt GACATTGTTTAATAAATTTTACTTAGTTTATTATGATTCAGGATATCATC}$
	440401	${\tt CATTGCTTTACAAAAGCTTTCATATTTACTATTAAACATTTGGTGTTCAC}$
	440451	${\tt TGTTTAAGATAACAGATGATTGCAAATTATTGTTCTTAATTAGGTATTTA}$
	440501	${\tt TTGAAATAGCTTAATGTTAATTTTGTTGGCATAAATAAAT$
10	440551	${\tt TAAAACCAAAAACACTGGTAACTTTAAATTTTTATAAGTCTTATTTAAAA}$
	440601	${\tt CTGGTAGTTCTTTCAAAATATTATTAGAAAGCTTTTTAGCCATTTTACTG}$
	440651	${\tt TGTTTTGACAGCTCATTTTCTCAGCTGTTTTCATCAGTTAAATTACTAAA}$
	440701	${\tt TTTAGTTTGAAACATTGCTTTAAAATTAGCCATTCTTTCT$
15	440751	${\tt TTTTAAAAGAACTTTTAATTTTGAAATATCTCAATAAGTTACAGTATGAA}$
	440801	${\tt AGAGGTGCTAAAAGTATGAGTTTTTCAACACGTTTAGCATTTAATAAATT}$
	440851	${\tt CATGGCATACTACAAACAGCAGCACCCATACTGTGTCCTATTAGAACGA}$
20	440901	${\tt TGTTTTCCAGATCCTTATTTTCTATAAAAGCAGCTAATAGTTCTCCATAA}$
	440951	TGGATTGGAGATAATTCCTTATAATCAAAACCATTTACATTATGACCAGG
	441001	${\tt TCAAAGTGGAGCGTAATAGTCATAATCAGTAAGGGTTTTATAAAAACTTT}$
	441051	GAAAGTAGCTATGAAAAACAGAAAATCCATGTGCAAAAACAACCGTTTGT
25	441101	${\tt TTTTTTTTTTTTTTGCTGGCTGAAAGAAAACTTCAAGCTTAGAAATATC}$
	441151	${\tt AATCTGATTAAGATCTGAAAACCTTTTCACAATTATTTTTTTAACACACT}$
	441201	${\tt TTAAAACAACGTGAGCACAAATTATGATCTAATTTTTGCTTAATGATTGT}$
30	441251	${\tt TTGAAAATTTCAGCATCTTTCACACATTGTTTTTTAGTTTTTTAACTT}$
	441301	TAATTTCATTTTTTTTTTTAAATTAACACTGTTTACATTAAGTCAA
	441351	AGTGCGAGATTATCCTTTAATTTTTTTGGGTATTTTTTTT
	441401	GGTTAATTCAATTTGATTATTTTTAGAAATCAACCCTTCTTTTCTTAGCT
35	441451	TTTCAATTTCTTTGAAAGCAGCATTTTTAATACTAGTAAAAGTTTTATAG
	441501	ATATTTCCTAAATTCTTAGAGTTAGCAACTTTAAAAACAGTCGGTTTTGT
	441551	AAAGAGGTTCACACTTATTGGTTTTTTATTGAATGAATAGTTTTTTCAAG
40	441601	CATCTTCTGCAGTGTGGGGAATAAAGATATTTAAAAAAACTGATTAGTTGT
40	441651	GTAAAAATATAGTTTAAAACAGCTTGTTTAGCTAAACGATTAGGATTATT
	441701	TTTAGCATCACAATATAAGGTGTCTTTAATTATTTCAAAGTATCAGCTTG
	441751	ATAGTCATAAAACAAACTTATTAATCACTTTTAGGCAACCTAAAAAATTA
45	441801	TATTTCTCTAAAAATTTCTCAATTTGTTCTACTAGTGAATTAGTTTTATG
	441851	GATAACTATTTGTCTTCTAGTGAAAACTTATAATCATCCATTGATGTAA
	441901	AGTTAAATCCATTAATATTACCCAAAATAAAACGTAGTAAACTATTTCTA
50	441951	ATTCTGCGGTATTGTTCAGCAACTTGTTTAAGAATATTAACACCTATTTT
50	442001	GTTATCAATTTGTCAATCAGTATTAGCAACTCACAACCTTAATATATCCG
	442051	CTCCATATTGATCACAAATTTTTAAAGGATCAACTATGTTTCCTAATGAC

442151 TGATTTAAAAGGGATTAAATCATTTTGAATAATT 442201 AGTTGAACCAACCCCGATATTGATCAGAACCTTC	CCGCAATTTGAAGAAG
5 442201 AGTTGAACCAACCCCGATATTGATCAGAACCTTC	
	AATATAAAGATCAGCT
442251 ATTGAACCATATTTATTTATTTCCAAAACATTAT	AGGAAGAACCTGAGTC
442301 AAATCAAACATCTAATGTATCAATCTCCTTGTGA	TACTTAACTCATTTTT
10 442351 TGGTTTTATCAGGTTTTAAAAAACAAGTTACATC	TTTTTCAAATCAACTA
442401 TCAATACCATGCTTTTTCAATTGTTTTAATTGTGT	ATTGAATTGTTGAAAA
442451 ATCTAACAATGGTTTGTTATTTGCATAAACAATT	GGTATAGGCAAGCCCC
442501 ATACTCTTTGACGTGAGATACATCATCACG	TTGTAAAAGCATCTCT
15 442551 TTTAATCTCAATTGATTTTTGAATTTAAAAAAT	TAACTTGATTAATTTG
442601 TTTTTTTAACTGCTTTTTTATTGATTTAGTTTTA	ATGAATAATTGTTTGG
442651 AAGCACGGTATATAACTGGAGTTTTTGAGCGTCA	ATCATGTGGTTCGCGG
20 442701 TGGGAAATAACTTCAGAAAAAATAAAGCTATTGT	TTTGTTTTAAACGATT
442751 AATAATTAGATCATTTGCTTTAAGATAAAAACAA	TTCTCAAGTTCTTTAT
442801 CATTAAGTAAGTTATTAAATACACCTTTCTCATC	AATAGAAATCAAAACT
442851 TCTTTAATCTTGTTTTTTTGACAAAGATAAAAAT	CATCAATTCCAAATGC
25 442901 AGGGGAGCTGTGAACAATACCTGTTCCCTCATTA	TCAACAACATGTATTC
442951 CCATTAGAACTGGTAAAACCTTGTTATAAAAACA	ATGAGAATAGCTTGAA
443001 TTTTTTAAATTTGAACCCTTGAATTTTTTAGTT	TAATTGCATTTGTTCA
443051 ATTTAACTTATTTGTAAAAACTTCAAATAATTTT	TCCAAGATAACAAATT
443101 TTTGTTGGTTATATTCAAAAGAAGATAATCAAA	ATCAGGATGAATGGCA
443151 ATTGCTTGATTAGTTGGTAGTGTTCAAGGAGTTG	TTGTTCAAACTAATAA
443201 ATTAGCATTTTCATCTAAAAAATCACTTTTAGAA	ACTTTAAAAGTTAAAT
35 443251 AAAGTGCAATTGAATTAACTTCTTTATATTCAAT	TTCCGCTTCAGCAAGT
443301 GAAGTTCTTGAAATTGGTGATCAATAAGTTGGTT	TTAAATCTTGAAAAAT
443351 GAGCCCTTTTTTAATTGCTTGTAAAAATAGTTCA	AGTTCCTTAAATTGAA
443401 AACTCTCATCTATTGTGTAATAACAGTTTTGAAA	ATCATTTAAAAGTCCC
443451 AGTCTTTGAAATTGTTCTTTTTGAACTGCAATTT	GTGAAAGTGCAAACTG
443501 ATGACATAATTTCTTTTTCAACAGTTGAAAGA	TTGCTATAACTACTAG
443551 GGTTTTTCTTACTAACTGCATGTTCTATTGGTAG	TCCATGACAATCCCAA
45 443601 CCAGGAATAAAAACAACATCATATCCtTCATATA	ACCAACTACGTAAAAT
443651 GAAGTCTTTTAAAATCTTGTTAAGAGCATGTCCC	ACATGAATACTACCAT
443701 TTGCATAAGGTGGTCCATCATGCAGTATTTTTAT	CTGTTTTCCTTTATTC
443751 TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	TTCAAAAATCATGAAA
443801 ATTCTTTTCACTAGTAGATAAATTTGCCTGCATC	GCAAAGGATGTTTTAG
443851 GCATTAACAATGTCTTTTTTAAGTCCATTAAATC	AGAGTAATTTTATTAA

	443901	${\tt TATTTATCTAACTTACATCTGATGTATAAATCAGTAATAAACATAGTTTT}$
	443951	${\tt ATTTTGTCCAGAAATTCCTAATAACACTGGCAACATCGTACGTA$
5	444001	$\tt CTGCTTTTAAAGCTAATCTACACTTAATTAAACCTTATGGCTTTTTCTTA$
	444051	${\tt AATGATAAAAGGATGGTTAGAGCTGGTTTAAATTGTTGAGATAAAATTCA}$
	444101	${\tt ATTATTTGAACACAAATCATGAGAACATTTCTTACAAGCAACCACTGAAA}$
10	444151	${\tt ATAAAACTATTTGGCTTTTAACTAAAAGTGGTGATAAAACTCCTGATCAA}$
	444201	${\tt ATTTGCATGACAAATAAATTACCAAACGAACTTTACTTT$
	444251	${\tt GGAAACAAAGGGATTACCTAAAACAATCATGGATAACTTTAAACAAAACC}$
	444301	${\tt AAATTAGAATTCCCATTTGAAATAGTGTTAGAAGTATTAATCTTGCTAAT}$
15	444351	${\tt GCAGTTGTCTGTATTTGTATGAATATTCAAAGCAAAATCAATACTCTAA}$
	444401	${\tt TTTAGATAAACAGTGCGCTTAAGAAAAGTTAAAAACGCTCTTTTAAAAAT}$
	444451	${\tt TAATCAAAGTCCTTATTTTTTTTCAAAAGATAAGTTTGCTAAGTTTACTA}$
20	444501	${\tt AAAAACAATTAGTGCTGGAATTGGGTTGTGGTAAGGGTACTTTTTAATC}$
	444551	${\tt AAAGAAGCACAAAAAAAAAAACAATTTCTTTTTATAGGAATTGAACGTGA}$
	444601	${\tt ACCTACAATTGTTTTAAAAGCAATTAACAAATTAACAAGTTGGATTTTA}$
	444651	${\tt ATTTGGAAAATATCTTATTGTTGTGTACAGATGCAAAACAACTTGATGAT}$
25	444701	${\tt TATTTCAAGCTGAATCTGTTCAAAAAATCTTTATTAATTTCCCTGATCC}$
	444751	${\tt TTGACCTAAAAAGCGTCATATACAAAGACGTCTAACAAGTCCAGATTTTT}$
	444801	${\tt TGAAACTTTTTGAAATTTACTAGTAAAAAATGGCTTAATTGAGTTTAAG}$
30	444851	${\tt ACTGATAATGATAAGTTATTTGAATATCTTTAACAACATTGCAAGAAAA}$
	444901	${\tt TAGTCAAATTTTTGAAATTATCCATCAAATAACTGATCTTAACAATTCTG}$
	444951	${\tt AATTCAGTTTTCAAAATAGTATCACTGAATATGAACAGCGCTTTATGGAA}$
	445001	${\tt TTAGAAATTCCAATTAAAAAACTAGTGATTAAGAAAATAATTTAATTAA$
35	445051	${\tt GTTATTAGAATAATTATTAGCTTGATGGCGATTGTGGCGAAGTGGTTAAC}$
	445101	${\tt GCACCTGATTGTGGATCAGGCATTCGTGGGTTCAATTCCCATCAGTCGCC}$
	445151	${\tt CCATTAAAGATTCAAAGAGCAGCAGCTAGCTTTTTTTTTT$
40	445201	${\tt TTTAGTGGAGTATAAACACTATCCAAGAAATTTAAAAAATCAACACTAAC}$
40	445251	${\tt TCTTACTGCGTGTTTTAATTCCATAAGATTTTTGTGATCTTTGAACTG}$
	445301	$\tt CTGGTTGAGAAGATTGTGGTGAAGTAGGAGTAGTATTTTGTCCATTACCA$
	445351	$\tt CTACTTGAGTCACCACCTGAACTGCCATCACCTACCGCCCCCTTCACCACT$
45	445401	${\tt TGAAGCTGGTGGGTTGAATCACCCTGACCTGATCCAGGTGCATTAGGAT}$
	445451	${\tt TTGTAGAGTTATCCAAACCATAAAAATTAGCTCTTATCTTATTAAGGTTA}$
	445501	${\tt TCTTTTCTAAAAGCAATCACAATTGCTTTAGTTACATCATTACCAACTGT}$
50	445551	${\tt TTGAGCATGCACATTTGATTGATTGATTAGGTTAGCTACATTACCACCAT}$
50	445601	${\tt AAGTACGTTGAATAAAATCAACTATTTCTCTATAGCGAACTGCAGAAGCA}$
	445651	${\tt TCTGATCTTCTTAACTTATTGGAATTGTCTTTATCTTCTTGACTTGCAAG}$

	445701	${\tt TTCGTTTTTCTATCCACAACAGGAAAACGTGCATATGGGTTTCACTTTA}$
5	445751	$\tt CTGAACCAGGAGCAATATCATTCCAAATTAAAAATTTAACTCCGTTTGGA$
	445801	${\tt TAAGTAGAATAACGGTTTTGCACCTGTCTGATGGTGGTACCCAAGGTACC}$
	445851	${\tt TCCTCAACTAAGAGAACTTGTACCTTGATTAGTAGAACCGTTTAGAAAAT}$
	445901	${\tt TAATTTGGGAACTATCTGTTTCGGTTGCAATAACAACCACATAATTACCA}$
10	445951	${\tt TCGTTATATGATCTGGTTCCAAAAACTAAGTTTCTAAATGTTGTACTGTT}$
	446001	${\tt AACAGGCAATTGGTTGTAAGCTGTATTTTTTTCCACACTTTCAACAGAAA}$
	446051	${\tt GTTCACGAAAAAAAGACTGATCGATGTTACTACAAGAACTTAAAATCATT}$
	446101	${\tt CCTGTTCCTAGTAATAAAACTAACCATGCTTTTTATGTTTTAGATTTCA}$
15	446151	${\tt AAAAAGACGCTTCATTTCTAAATTGACTGGTGTCGGAGACCAGACTTGAA}$
	446201	$\tt CTGGCACAGTCTTTAACGACCACAAGCACCTCAAGCTTGCGTGTCTACCA$
	446251	${\tt TTCCACCACTCCGACTATTTGCTTGTAGTTAATATTGTTTATATAATAA}$
20	446301	${\tt AAATTTTAATACAAGAGTTAACAAGGCTATTAGCTTGTACTAGCTTAAAC}$
	446351	${\tt TAGGAATATAAAGGTGTTATTTCAAGCTAAATTCCCGCTTTTTTCTCCTT}$
	446401	${\tt AAATTCAACTTTTTTATCCGATTATTGGTAAATAAATCAGTTTAAAAAG}$
	446451	${\tt TTATTAACAAAATGTTTATAAGTCTCAAAAAAGGGTTGTTTTAGACTGTT}$
25	446501	${\tt TTTAATGTCAATAAGTTGTAAATAAATGGCAGAAAAATCTTTTTTTAGCC}$
	446551	${\tt TTTTAATGCAAAGTAATTCAATAAATGGAGGATAGCGTCTTATACTCTT}$
	446601	${\tt TTTACTTTTGAACGTATATGCAACCCAACTATTACCGTGTGATCAAAAAA}$
30	446651	${\tt GCAACATCATTTTCTGGATTAGAAATGATCTCTCATGCTTATGGTCAAAT}$
	446701	${\tt TGCGGGAGTGGAAGTTGTTGGGTTTTATTTATGACTAATAACAGAAGCTA}$
	446751	${\tt ATATTCAGGCGTTCAACAGTGAAATTAGAACCCCCATTTCACGATTACAA}$
	446801	${\tt AATGCCTTTAATCCTTTTGAAATTAAAAAAAACCAAGTCTCTGAATGGAT}$
35	446851	${\tt TTATAAAACTATTAGCAAATTAGAGAGTCTTGGTTTAGTGAGAACTTTTT}$
	446901	${\tt TTTCACCAAAACGCTCTGAAATAACTTTTTGTATTATTGATCCTTTAGAT}$
	446951	${\tt TGGAAAGAATTTAAGCAAAACAAACAATTAAAAGAAAAACTAGTTGAGGC}$
40	447001	${\tt AATGGGAAAAGTTGAATATGACCGAAACTGCTTAGCTTTTGATCAAATCG}$
40	447051	${\tt ACAATCTTCAATTTGATAATGCGCTTGAAATCTCTGCTAACTTTGAAGTT}$
	447101	${\tt AATTTCACTGCAAACCAAAGCGATGTTTGATTTAGCTTTAACTTCGAGGA}$
	447151	${\tt ACTACATAAAGAACTTGTAAAAAAACAAACTTTTAATTTCTTTAGATGAAA}$
4 5	447201	${\tt AAGCTAAGACTTTAATTAATGGTTATTTTGAAAAATACAAGCTTTCATTG}$
	447251	${\tt CAACAAATTACTGATTGCATCATCAACAGTAGTACTCAAGAGAATGAGCT}$
50	447301	${\tt TGATTTTCAAAAGTTAGAAATGATGTTTTTTCAAATAGTAAAAAATGATA}$
	447351	${\tt CAGCTCCCATTTTAGAAACAGTTTCAAACAACAAGACTTTTTTATAAG}$
	447401	${\tt AATGAAATTTTAGATGAATCAACAAAAAAAGCAATAACAGACTGTCATGT}$
	447451	${\tt AAACTTCAATTCTGAAAAATACCTTTTTCTTCTATATGGAAAGATAGAT$

	447501	AATCGCAATTGCAATTAGTTAGACAATTGAGAAGTGATTATCAACTATTA
5	447551	GATAAAGTAATTAATTTAGTATTAGACTTTTCCTTTTGAAAAAATAACGG
	447601	AATGTGAAGAGAAAAATACATTCTAAAAATTGCCCAATCCATCAAAATTA
	447651	ATAACAGTCAAAACAGTTATGAAAAAACCCTTAATAATTTTATTAGAGCA
	447701	${\tt CTAACTTTAAATAAAAAGCATTCTTTAAATAATATAAAACCAGTTGAAAA}$
10	447751	${\tt AACAATTTCCTTTACTGAGTATTTTGAATTTATTAAATAATGAAAATTTC}$
	447801	${\tt ACCAGATCAAAAAGATAAAAAGTCATTATTAAAAAAACATTTTGCTTATT}$
	447851	${\tt TGAAATTAACTGAAAAAGAACTTAATGATCCTAAGATACAAACACTTTTA}$
	447901	${\tt GAAGTTGCGTGGAATCATTTTGATCAGTGTAGAAAAATTAAAGAAAG$
15	447951	$\tt ATGTAGTAATAAAGGTGATATCCATCTTCAAGCTGTTAGAGAGTGGTTAC$
	448001	$\tt CTTGAGAATTTAACGCTAATCAACTTAAAAAAAATAGTACAAAAGAAACA$
	448051	${\tt ACGCAAGTTAGTGAAAATGAATTTATGGGTAATGTTATGCTCATGCAAAC}$
20	448101	${\tt TATTTGTCCTAAATTAGTTAATAAAGCAAACTGATTTGATTTAACTTATG}$
	448151	${\tt AGCGTTTTATTGTTACAAAACCAAACTGATTTAAATACATGGATTTGATT}$
	448201	${\tt CCAATGATCCAAAATTTACCAGTAACTCCAAGTGATAAAAATAGTTTTGG}$
	448251	${\tt TTATGCATACAAAAAGATATCTAATCTTTTTGAAACTGAAAAGAAAACAA}$
25	448301	${\tt AGAAAAGGATATTTTTTTTCAATTTACAAAAGAATAACATTAACAATATG}$
	448351	${\tt GCAGCTTGTATGTTAACTTGTGAAATAGCTAAGAAAATATAAAAGTTGC}$
	448401	${\tt TTTAATTTATTGTGAAGAATTTGTTAGCAGATATGACAAAAGTTATTGAA}$
30	448451	${\tt AGGTAGATGATTAAATTTACTTGATGAGGCAAAAGTAATCATATTC}$
	448501	${\tt ATTGGTTTAGGTCAGGAAAGTTTTCATAACAAAAACTATATCTTGTTTAT}$
	448551	${\tt GACAAGGCTTTTTATAAATTGTTTTTTGAAAAGAAAGATGTTTTCTTTT}$
	448601	${\tt TTAGCACTACTTATAGTGATGGTAATGGATTAATTCAAACATTTAAAAAC}$
35	448651	${\tt CAAATTATTAGTAGTGCAAATTGAGTAAAACACTTTTTTGAACAACTTAA}$
	448701	${\tt TGATTTATTAATGATTAATATTTAAAAATTACATTCTTTCACCAATAAAT}$
	448751	${\tt AGCTAAGTTTATGTAAAATTTATCTTGTATTACCTGGAGTGGCGGAATGG}$
4 0	448801	${\tt TAGACGCGGTGGACTCAAAACCCACTAGGAAACTGTAGGAGTTCAAGTCT}$
	448851	${\tt CCTCTCCAGGACCATAATTAAATTACATTACACTACGAAATTACAA}$
	448901	${\tt GCTCAGTTTAAAGCTGAGCTTGTTTTATTTTATAGTGATTTCTATTTAG}$
	448951	${\tt CTAATGCTCTTTTCAATAAAACTTTTGAAAGGAACGCATAATTGGCACT}$
4 5	449001	${\tt CCAAAACAACTAACAAGTCCAAATTTCACCAAATTAAAAAACGAATATAA}$
	449051	ACAGAAAATTCCCAGCCAATAGTTATTAATTCCAAAGAAAAAGAAATGAA
50	449101	${\tt AATCAGTGTTCTTGTTATATTGTTCAGCAACTATTAAAAAGTTAGGTGTT}$
	449151	${\tt TGAACATAACCAAAGTAGTATCAAAACAAAGGTGTTATCAAAATACCGTT}$
	449201	${\tt AAGCGTTGTTAGTAATAAAGCATTGGATAAGGTTGTAAATAAA$
	449251	AGATTCAACAAAATCTTCTTTTTGAAAATAAACAAAAATAAAGCCTTGTA

	449301	${\tt AATAAGATAGTCGATAAGTTAGCTAAAGTTACAGTTAGAACACCAATAAC}$
	449351	${\tt ATTATTAGTATTTCAAAAAAAACTAGTTAAAGCAGAAGCTAATGTAATTG}$
5	449401	${\tt TTAAGCTTCAACCTAGTGACACAAAAAAAAGCACATGCAACTAAAAAAAA$
	449451	${\tt ACGGAAATATCAAAAGTTAGTTTTAGTTGTGAGAAAAAAGGAATACTAAT}$
	449501	${\tt AAATTCACTAATTAATGATGTAATGATGGCCAAAGCAAGC$
10	449551	${\tt TAAAAGTAATATAAATAACTGATGGTATGATTTTTTTGGCAAAAAAAA$
	449601	${\tt AGTTTATTACCATTCATTATTTAAAAGACTCTTGAATTATTAGTTAATAA}$
	449651	${\tt TAATATTTATTGATATGGACAAATTTTTAATTGATGTTATTGTAGAAATC}$
	449701	${\tt CCTAAAAACAGCAAAATAAAGTATGAGTATGATCGTCAAACTGGTCAAAT}$
15	449751	${\tt TCGCGTTGATAGAATCCTATTTGGAAGTGAATCATATCCACAAAACTACG}$
	449801	${\tt GTTTTATTAAAAATACATTAGATTGAGATGGGGATGAACTTGATTGTTTT}$
	449851	${\tt ATCTTTGCAGATCAACCATTTTTGCCTGCAACAGTTGTGCCTACAAGAAT}$
20	449901	${\tt TGTAGGAGCACTTGAGATGATTGATGATGGGGAAATTGATACTAAGTTAT}$
	449951	${\tt TAGGAGTTATTGATTGTGACCCTAGATATAAAGAAATTAATCAAATTAGT}$
	450001	${\tt GATTTACCTAAACATAGAATAGAAGAAATTCTTATCTTTTTAAAAACTTA}$
	450051	${\tt TAAATTACTTCAAAAAAAGACTGTAATTATTAAGGGTTTAAAAGATGTTT}$
25	450101	${\tt GTTGAGCTAAAAAAGAATATGAAATTTGTTTGCAATTAATGAAAGATTAT}$
	450151	${\tt GGTCATTTATCAAAAGATCAATTTATCCAAAAAATGCAAATTCTTCATCC}$
	450201	${\tt AGAACATTACCAAAAGTAAATATGATAAATGCCAATCGCGGAATGCTTTT}$
30	450251	${\tt AGAGACAATTGTTAATCAAACAATTGCTAGGTTAAAGGATCATCCAGATA}$
	450301	${\tt TTTGACTGGAAAAGCGGTTCTTACCTATTAAGCCTATAGCTTTTCGTCAT}$
	450351	${\tt GCTCATGTATCTGGCAACGTATCACAAAAATCAAAAACTGATTATTATGG}$
	450401	${\tt AATTTACAAGGGAATGTATTTTGATTTTGAAGCAAAACAAAC$
35	450451	${\tt GTAATTTCCAATTGCTCAAATAGCAGAACACCAATTAAATCATTTGAAA}$
	450501	${\tt AGAATTGACCAAATTGGAGGAGTTAGCTTCTTGCTAATTTACTTTCAAAC}$
	450551	${\tt TAAAGATCAAATTTTTGCATTTCACACTAAGGATCTTCTAGAAACAATAA}$
4 0	450601	${\tt AAAATCAAGAAAGCAAAACAATTAAAAGGGAATTGATAGAACAAAAATCT}$
	450651	${\tt CAGAAAGTTCCACTATTGTATCCTGGTATTATTGATTTAATTTCAATAAT}$
	450701	${\tt TCAAAGCTTTAAAAATTATTAGTCTGCGTACTTTCAACGCACTTTAGCTG}$
	450751	${\tt CAGTTTCTTTGATCGTTTTGCTTGGACTGTAGCGCACTAATGGTTTTGGT}$
45	450801	${\tt GGGATATGTCTAATCTCACCTGTTTGCATATCCTTCTGATAACGTGCATT}$
	450851	${\tt TCTAATAGTAATCCTTAATTTACCTAAATTTTCAGGTAATATACAAACAC}$
	450901	${\tt TTCTACTTACCAATTCATTTAGTAACAATGTGTTAAGGTATTTAAAGATT}$
50	450951	${\tt TCCTTAATTTTTTTTTTTTTTTTATACCAGTAGCAACTGCAATTATTTTATT}$
	451001	${\tt GATTTCACTACGAGAAAGTGGCTTACTTGTATTTGATGTTTTTTCCATAT}$
	451051	${\tt AATTATTTTTAAAACTTTATTAGCTCTGTTATTGCTAAAAACAAAAGAG}$

	451101	${\tt AAACAATTTAACGCATTCTATTTTATTATTGATTCAACAATTAAATTAAA}$
	451151	${\tt ACACTTATAAAGTAAATTTTTAGACAATTATTTCTATTCTTAAGACATGG}$
5	451201	${\tt AACAAAACAATATTAAAGAACAACTTATTTCTTTCTTTAATCAAGCATGT}$
	451251	${\tt TCTACCCACCAAGAAAGACTTGATTTTATCTGTTCTACAAGAGAAAGTGA}$
	451301	${\tt TACTTTTCTAGTGTTGATGTACCACTTGAACCCATTAAAAATATTATTG}$
10	451351	${\tt AAATAACTAAAGATGAAAATCAACAAATTGAAATTACAAAAATAGCTGTT}$
	451401	${\tt AATAACATTAAAACATTATCTTCTGTTGGTGCAACCGGTCAGTATATGGC}$
	451451	${\tt ATCTTTCTTTCAACGAATAGTGAGCCAGCTATAATATTTTGCGTCATTT}$
	451501	${\tt ATTTTTTATATCACTTTGGTTTTTTAAAAGATAACAATAAAAAACAAATA}$
15	451551	${\tt ATAAAAAAGGCTTATGAAACTATTGCTGATAACATTGCTGACTATTTAAA}$
	451601	${\tt TGAAAATTAGGTTTAAGACTTATTTTTTTTTTTTTTTTT$
	451651	${\tt TAACAACTGCAATGTTGTATCCAACACCTTTTTTTATCTTTCCCTGAAGG}$
20	451701	${\tt ATATATTTAGCTATTAAAGTTGCAACACTATGATCAATAAAGCGCTTAAT}$
	451751	${\tt TGGTCTTGCACCAAACTGTTGATCAAAACTACTTTTATAGATAAACTCTG}$
	451801	${\tt TTAGATTTGAALCAAAATTAAAAAATAAATTTTGTTTATTCAAGCGTTTT}$
	451851	${\tt GAAAGTTGTGCCAACAAGCTGTTGATTATCGATAAAACTGTATCTTTCTC}$
25	451901	${\tt AAGAACATTGAAAAATACTATCTCATCAATACGATTTATAAATTCAGGAC}$
	451951	${\tt GGAAATGTTTCTTTAGACTTTGAATGGCCAAATCTTTTTTCCTTCTAAA}$
	452001	${\tt AGAAAATTTGAACCTAGGTTAGAAGTCATAATTATCAAAGTATTTTTGAA}$
30	452051	${\tt ATTAACAACCCTTCCTTGTGAATCTTTTAAAGTACCATCATCTAAAACTT}$
	452101	${\tt GTAATAAAACATTAGTTACATCAGGATGTGCCTTTTCAATTTCATCAAAT}$
	452151	${\tt AACAAGACGCTATAAGGTTTTCTTCTAACCGCTTCAGTTAGCAAACCTGA}$
	452201	${\tt TTGTTCATAACCTATGTACCCTGGGGGTGCACCAATTAATT$
35	452251	${\tt AATGTTTTCCATATATTCACTCATATCAAAACGAATCAGAGCTTTTTCA}$
	452301	${\tt TTGTCAAAAAGAACTTCTGCTAATGATTTGGCAAGTTCAGTTTTACCAAC}$
	452351	${\tt ACCAGTAGAACCTAAAAAGATGAAAGAACCAATAGGTTTGTTT$
40	452401	${\tt TTATATTTACTCTACCTCTAATTACAGTGTTAACAACAGCATCGATGGCT}$
	452451	${\tt TCATCTTGTCCTTTAACTCTTTTTTTGATTTCATCACCTAAGTGCAAAAG}$
	452501	${\tt TTTATCCTTTTCACTTTCTAATAGTTTTTTAAGTGGAATTCCTGTTGTTT}$
	452551	$\tt GTGAAATAACTTCAGCAATTTCATTTTCAGAAACTTCAGTTTTAAATAAA$
4 5	452601	${\tt TCGTGCTTAGAAGTTGCATATTTTTGTTGTGCACTTTCCAGTTCTTTTT}$
	452651	${\tt AAGTCTTGGGATATCAGAGTACAGAATTTTAGATGCACTTTCATAATTTC}$
50	452701	${\tt CTTCACTTTGGTATGTCTCTAGTTTGGTTTGAAATTCTTCAATCTCTTTT}$
	452751	${\tt TTGAGCTTATTAATGTTTTCAAAATCAGCCTTTTCCTTTTTTCATTCA$
	452801	${\tt TATAAGTGAATCACGCTTTTGTTTAAGAGCATCTAATTGTTTTTTAGTT}$
	452851	${\tt TCTCTAAATATTCTTTCTTTGATTGTTTGTTATCATTTTCCTTATCTTGT}$

	452901	${\tt TTAAGAGCTGCATACTCTGTCTCAAGATTGATTATTTCACGTTTAAGACT}$
5	452951	${\tt ATCTATTGCAACTGGTTCAGATGACATTTCTGTTTTGATCTTAGCAGCAG}$
	453001	${\tt CCTCATCAATAAGATCAATGGCTTTATCAGGTAAATTACGTTCATTAATA}$
	453051	${\tt TAACGAGTTGACATTTCAACAGCAGCTACTAAAGCACTATCAAAAATAGT}$
	453101	${\tt GATGTTATGAAAGAGTTCTCAACGTGTTTTTAAACCACGCATAATTGTTA}$
10	453151	${\tt GTGCCTCTTGACTACTAGGCTCGTTAATAAGAATTTTTTGAAATCTACGT}$
	453201	${\tt TCTAAAGCGCCATCTTTTCAATGTATTCCCGGTATTCTTTTAGAGTAGT}$
	453251	${\tt AGCGCCAATTACTTTTTTTCTCCTCGAGCTAGCATCGGCTTTAATATAT}$
	453301	${\tt TGGCAATATCCATTGCACCACTGCTAGAATTACGTCCTAATCCAACTATT}$
15	453351	$\tt TGGTGAATTCATCAATAAAAAGaATAATCCTGCCATTTGAtTCTTTAC$
	453401	${\tt TTGCTTAAGAATGGTATTAATTCTTTTTTCAAATTCACCTTGGAATTTAG}$
	453451	${\tt TGCCAGCAATTAATCCAGAAAGAGATAGTTCATAAATTTCTACATCCCTT}$
20	453501	${\tt AAATTTAAAGGTACATCATTACTAACAACTCTTCTAACAAAACCTTCTAC}$
	453551	${\tt TATTGCGGTTTTACCAACTCCAGGTTCACCAATTAAAACAGGATTGTTTT}$
	453601	${\tt TGCTTTTACGACTTAATATCTCAATTAAACGACGAATTTCGTTATCTCTT}$
	453651	${\tt CCAATAATAGGATCGACCTTATTTTTTAATACTTCATCGTTAATATTACG}$
25	453701	${\tt ACCAATTTCTTGCAAAAAATTACGATTTTCACCAGCAGGTGTGAAATTAA}$
	453751	${\tt TATTCATTTAATTGCTCACTCCTTTTAATGCAAAAATTATATAAAATTA}$
	453801	${\tt GCACTCAAGGCATTCGAGTGCTAATTAAAAACTAGGTTTTTTTT$
30	453851	${\tt CTAATTTATCTAATCAGAGTTGATATTTTTGTCAAAATAATTAGAAACCT}$
	453901	${\tt AAAATAACTATTAACTATTTTTTTTTTGTGCTTGTTTTCAAATTGAGGGAAAT}$
	453951	${\tt AATGCTTTTAAAAAGTATTCTAATCGTTTTTCAACTCATTTTCGATAGTT}$
	454001	${\tt TAAAATTGCTTCTGTTTGGGGCATAATCTCAGTTCATTGAAAAGCAAATA}$
35	454051	ATAAAACATAAATAACTGTTTCAAAAACAAGCTTACGCTTAAGTCCACCA
	454101	${\tt TAAATATCAATAAGTTTATTTGCTGTTTCTATGGTTAGTTCTTCACGAAT}$
	454151	AATATTAGCTATTTCATAATAAGGATTATCAACACAAGATCATTCAAAAT
40	454201	CAATAAGGATTACTTGCTTTTTAGGTGTTCAAACCAAATTATCAAAAGTA
	454251	GCATCATGATGACAGAGAGTTTTTGGTATGTCAATATGCTTCTTAGTTAA
	454301	ATTAAGATATAACCGTTTATAAAAAGCGGAAAGCTTAGTTTTTCAAAAT
45	454351	AAACCAAAGGATCAAATATTAAAAGTTCATTAGCAAATGGTTTTCAGTCA
	454401	ACTGAATGAACTTTTTTTAAAGATTCAACCAATCTGCATAAAAATAGATC
	454451	AGTTGCTCTTTTAGGTTGAGTGCCTTCTATCCACCTTTTTATAGCATTAC
50	454501	CTGTTGTTACATCAAAATAAACAAATGGGTTTGAAAAAAAA
	454551	AGTTGCAAAATAATTTGTTCATTTCTTCTGTCTAAAATAACATCTTTTCT
	454601	TGAAAGTCTTATTTGAAATTTACTATGATCTTTCAATTCACAAAAAAAA
	454651	AAAAATTAGTAAAACCAGAATGAATTTGCTCTATCTTGAAAATATCTGTT

	454701	${\tt TCTACAACTTGAAGTTTTTCACAAAGAAAAGCAACCGCTTTTTTTAAATC}$
5	454751	${\tt CATTAATTTTGATGATTATTTTTTTTTTTTTTTTTTTTT$
	454801	$\tt CTTCTACAATCATCAATTCCTCATTTGTACGAACTCTAAAAATTTGATAC$
	454851	${\tt TTGCTTTCATTTGTTGAAATTAGAGAACTATCTTGATAATTTCCAAATAA}$
	454901	${\tt ATTACTGTTAGTTTTAAAACCAAGTGAAGCAACTTTTTCAATTATTAATT}$
10	454951	${\tt GCACACAATAACTAGCATTTTCACCAACTCCCCCAGTAAATACCAAGCTA}$
	455001	${\tt TCAATTTCACCTGAAAGTTGATTTAGGTATTTAGCAATATAGTCAGCAAC}$
	455051	${\tt ACGATTAACATACATTTTTATAGCAATATCATTAATTTCTGGTTTATCAA}$
	455101	${\tt AAATATCACGCATGTCAGAACTACCTGTTATAGCAAACATTCCACTCTTT}$
15	455151	${\tt TTATTTAATTCATTTACAACATCATTACATGAAAGCTTTTGCTGTTCAGC}$
	455201	${\tt AATGTAACTAACAATGGCAGGATCAATATCACCACTACGTGTTCCCATTA}$
	455251	${\tt TTAATCCTTCAAGGGGAGTGAATCCCATCGATGTGTTTAGTGATTTGCCT}$
20	455301	${\tt TGTTTAATCGCACAAACACTTGCACCATTACCAAGATGACAAACAA$
	455351	${\tt ATTAAGTGGTTTTTTTTAAAACTTTTTTTCTAAAAACTCGTTAATGTATT}$
	455401	${\tt TATAAGAAGTTCCATGAAAACCATATCTTCTTACTAAGTTATTTTTCTCT}$
	455451	${\tt CAATTTCAGGAACTGCATAAAGATAATTTTCCCTTGGAATAGTAGTGTG}$
25	455501	${\tt AAAAGTGGTATCAAATACAGCAACATTCTTAGCAGTTTTTATCTCTTTTA}$
	455551	${\tt GAAAAATTTCAATAACATCTGCTTCTGGTTTATTATGAAGCGGTGCTAAC}$
	455601	${\tt TTAATGAATTCTTTTATTTTTGCTAGTGAATGTGTATCAACAAGAACTGC}$
30	455651	${\tt ATCTGTAAAATAATTTGCTCCTTGTACTACTCTATGCCCTATTAGCCCAA}$
	455701	${\tt TTTCTGAAAGTTCAGTAATAATTTtGTTTTTTTAAGCGCATTTAAAAAA}$
	455751	${\tt TGCTTAACAGCAAGATTATGATCATTAAATTGAACCTTTTCTTCTATCTT}$
	455801	${\tt TTTTTGATTAAATTCAAGCTTAAAAAAACCATCAATGAAAATACGTTCAC}$
35	455851	${\tt AAAGTCCTTTAGCTAGTACTTGTTTTTTTTTATCATTAAAAAGTTGAAATTTA}$
	455901	${\tt ATTGAACTGCTACCTGCATTAACAACCAAGATTTTGTGACTTTGCATTTA}$
	455951	${\tt ACCGAAGAATATTTACCTTATTTATTAAAAAAATAATACTAAATTAATATA}$
40	456001	$\tt GTGTGGAATAATTAAATGTTTTAACTAAAAAGAAATATTATTAAATCTTA$
40	456051	${\tt AACAATGAAAAATTAAAAAATGCTATATTATCGCTGTTATTTCAGCTTTTA}$
	456101	${\tt TTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT$
45	456151	${\tt AATAATGCAAAAACAGTAGCAACTGTATTTTTTTTTTTT$
	456201	${\tt AGTTGTTAATGCTATTGTCTTCTGGATTCTTTATCTATTCAAAAAAAA$
	456251	${\tt ACGTAGTTAAGTAAATTTATTTGTCACTAATAGTTTTTTAGCACATTAAT}$
50	456301	${\tt TTGATAGAAAACAAATTGAATGTAATATGGAAACTATCAGAGAAACACTT}$
	456351	${\tt TCTTCTATACAAAGAAGCAATTTTTTATTAAATGAAAGCGCACAAATTCT}$
	456401	${\tt CAATACGTGTGTAAACAAGAACACATTGCTTGACGATAAGCTGCGCAATT}$
	456451	$\tt CGATTAATTTTGCACTTAGCATCATTAAGCTAGCAGACTTTTGTCTAAAG$

	456501	GATGATACTGAAAAATTAATCAATTCTTAGGTAAAACATATGATTTACC
	456551	ATGAGAGTTTCAATTTAACCAAAAAGACAAGCATATAGAATGCACTGTCA
5	456601	AAGACAATTTTGGTCGTGAGAAACTAATAAATTTGATTTTTCAAATTGGT
	456651	GATGCTATTGAAACTTATCATACTACTTTAATAAGATTCAAAATTCCCAA
	456701	GCATTGTTTGAATGCAAGGGATCAAATCAAAAAAATAATGGAGGGCAAAT
10	456751	AAAAATGATTACATCTATCTTTGGAAAAGTTACTTTTGTAGGCAAAAGAA
	456801	AAATAATTGTTGAGCACAACTGGATTTCATATTGATTTAATACAAAAGAA
	456851	AACCATAAATTTGAAAAAATTTGGAAAAAAATAAGCAAATTTTTTGTCA
	456901	TATTATTAAAAAAATTGTCGCTAACCAAATTATAGAAGAGGCTTTTGCCT
15	456951	${\tt TTAATACTCTAGAAGAAAAAGAGTGGTTCTGTAGATTAATAGAACTCAAT}$
	457001	${\tt GGTATTGGTAGTAAAACTGCACTTAATTTGCTCAATAATGACCTTGAGGA}$
	457051	${\tt AATTAAACAATACATTCTGGAAAATAACTACAGTGCATTATGTGGTATTA}$
20	457101	${\tt ACGGTGTAAATAACAAAATAGCTCGTGCACTTTTATCACTTGAAATATTT}$
	457151	${\tt GAAAAATCTGAAAATAATAAAAAATATTAAAGGAGTTCAAGTTGCTGATGG}$
	457201	${\tt TTATGATGAATTGTTTGAAACACTAAAGTCACTTGGTTACAAACAA$
	457251	${\tt AAATTCAGGATGCACTAAAAATGATAGAAGTAAAACCTGATTTTGATATA}$
25	457301	${\tt AGTCAGTTAGTTGCAGAAGTAATTAAATTAATGTCTTTTAAGAATAATGA}$
	457351	${\tt AATTACAAATAAAACCGCCTAATACCTTTGATGAATTTGTAGGAAAACAA}$
	457401	${\tt GAAATAATTAGTCAATTCAATTAAGTATTAAAGCATCTAAATTAAATAA}$
30	457451	${\tt AACACAACTAGATCATATCTTGTTATATGGCCCACCTGGTGTGGGTAAAA}$
	457501	$\tt CTACTTTAGCCAGATTAATAGCAAATGAATTGAAAACAAAGTTGCAAATT$
	457551	${\tt ATTCAAGGTGGACATTTACAAAAACCAAGCGATTTCTTAAACGCAATTTC}$
	457601	${\tt ACTCATTAAAAAAGGTGATGTTCTTTTTTATAGATGAGATCCATGCCGTAG}$
35	457651	${\tt CACCTAATGTCATGGAACTAATGTATCCAGTTATGGATGTGTTCAAAATA}$
	457701	${\tt CAAGTATTAATTGGCAAGGATTTTAATTCCAAGATAGTTGAAATGAAGGT}$
	457751	${\tt AAATCCTTTTACTCTAATTGGTGCAACTACACAACTTGGTAAAATCATCA}$
4 0	457801	ATCCTTTAGAAGATAGATTTGGCGTTATCTTAAACATTAACTATTATTCA
	457851	AATGCTGAAATTGAAAAGATGGTAAGTATCTATGGAAAGCAAATGAAGTT
	457901	AGAGCTAAATTCAAATGAAATTTCAGCTATCACTGAACATAGTAAACAAA
	457951	CACCAAGAATTGCAATTAGAATAGTTAGAAGAATATTTGAACAAAAAATT
4 5	458001	GTTAATAAAAAAATAGACCTTGAGGGTTTGTTTAAGAATTTAATGATTTA
	458051	TAAAAATGGTCTGCAAAGTATTGATGTCCAATATCTTGAGGTTTTAAATC
50	458101	GCCAAAATGAACCACAAGGAATTAAGTCAATTAGTTCCATGTTAGGTATA
	458151	GACAGACACTATAGAAAATAAAATTGAACCTTTTTTGTTGCGTGAAAA
	458201	TATGATTCAAAAAACCAAAAAAGGCAGGATTATTACAAATAGCGGAAGAG
	458251	AATATTTAGTTAACTTTTAAGCTTATTAGCTCTTTTAATAATTTCAAAAC

	458301	${\tt CAAAACTTTCATTAATATCAAAAATTAATTTATCAAGTGAAGATTCTTCG}$
	458351	$\tt CTTAATTTGCTAATTGATTTTGGTATGATTGATAAAATAAAGATTTTTT$
5	458401	$\tt CTGTCCTTCATCTGTATCTATCTTTTTTAAATCAAAAAAAA$
	458451	${\tt TTAATCGAACGTTCTTTTCAGTATTAATTAATAGTCTGTTGAATAATCGT}$
	458501	${\tt TTTGTTATTGACAGTAGTTTTCTATAATCGTTTGAATATTTTTTCATTTT}$
10	458551	${\tt ATTTGAATGAGAATTAACAATAAAATCATTGCTTTTCAATTGCACAACTA}$
	458601	${\tt TCCCTTTACACACTTGTGAAGAGAGTTGTAATCTTATAAAGAGCTGATCA}$
	458651	${\tt AATATTTGCGTTAACTTTTTTTTTAACTGATTGTTTGAATAATTTAAATC}$
	458701	${\tt TTCTAACGTTTCACTGACTGCAAAAGAGCGAGACTTAACCTGATTGTTAT}$
15	458751	${\tt TATCTGTATATCATTTGCCTAGTGAAACTGCTTTTAAAGATTCTCAAAAA}$
	458801	${\tt TTACCAAATACTTTTTTAAAAGCGAAGCATCTTCACAAACTGCTAGATC}$
	458851	${\tt ATTTATTTTGTAAAAATTATTTTTAAAAACTAAATCAATATGTTTTTCTC}$
20	458901	$\tt CTATCCCTGGAATTTCAGTAATTGGTAGTGGTCAAAGTTTTTTTT$
	458951	${\tt TCCTTAACTGAACAACTTTTAATTCCAAATGGTTTTGCTTGATTTGAAAA}$
	459001	${\tt AATCTTAGCAATTAAAAAATGATCTGAGATGCCAATTGAAATTTTGATTC}$
	459051	${\tt TCAAGTTTTGAAAAACAAAATTTTTTTTTTTTTTCGCTATTAAAAATGCC}$
25	459101	${\tt TTTTTAAATGAAATGTTTTGAAAACAAGCAACCCCTTCATCAACAGAAAG}$
	459151	${\tt AACATCAATTTTAATGAAAAAGTGCTTTCAATAACTGAAAAAATACGTT}$
	459201	${\tt TAGAATGTTTTCTGTAATTACGAAAATTAGAATGTGCAAAAATAGCATTT}$
30	459251	${\tt GGACATAGTTCTAATGCTTTTAAAATAGACATTCCAGATCTAATTCCATA}$
	459301	${\tt ACTACGAGCAACATAGTTACAAGTTGAAAACTACACTTCTTGAAAAGCGAT}$
	459351	${\tt TACCAACTATTAAGGGTTGATTAACTAATTCTGGATTTTCTAATTCTTCA}$
	459401	${\tt ACAGATGCAAAAAAGCATCAAAATCAAAATAAAGAAAAATTAAATTTTT}$
35	459451	${\tt ATCAATTAAATATTCTGGTTCAAAATATGTAAAGGTGTTAATCATATTTA}$
	459501	${\tt TCAAGTTATGTTATTTACTTGCAATAAAACCAAAGAAAATAACGAGT}$
	459551	${\tt TTTTAACTTTAATAAAGTTATCGAGGATTTATCATCGTTTGTGCTATTGC}$
40	459601	${\tt GAATATTGTAGTTAATGGTAGATAGTAAGAAAAAAAAAA$
	459651	${\tt ACGGATTTTCTAATTTACTCTCTCAAAGTAAAGGATTTGTTATTTTTGA}$
	459701	${\tt CTATTCAGGAATGTCTGCTGTTGATGCAACTTTAATGAGAAAAAAGTTGT}$
	459751	${\tt TTAATAAGGGTAGTAAGATAAAAATTGTTAAAAACAATATCTTAAGACGT}$
45	459801	${\tt GCTTTAAAAACTAGTAATTTTGAAGGTGTTGATGAATCGGTCATCAAAGG}$
	459851	${\tt AAAAATTGCAGTTGCTGTTGGTATTAACGAGATCTTAGAAACCTTAAAAG}$
	459901	${\tt TTGTTGATAGTGAAAGAAAAAGAGTTAATGAAATTTGTTTGTGGT}$
50	459951	${\tt CATTTGATAACCGTATTTTTAATAGTGATGACTTACAAAAAATAGCAAA}$
30	460001	${\tt ACTCCCTGGTAGAAATGAACTTTATGGAATGTTTCTTTCAGTTCTACAAG}$
	460051	${\tt CACCATTACGAAAATTTCTCTATGCTCTTCAGGCAGTAAGGAATGCTAAG}$

	460101	TAAATTAAATAAATAGAAAAATATTATGGGAAAACTAGATAAAAAAACAAT
5	460151	${\tt TAATTGAATCTCTAAAAGAGATGACTATAGTTGAAATTGATGAAATAATC}$
	460201	${\tt AAGGCTGTTGAAGAAGCATTTGGTGTAACTGCAACTCCAATAGTAGCTGC}$
	460251	$\tt TGGCGCAGCTGGTGCTACACAAGAAGCTGCTAGCGAAGTTAGTGTAAAGG$
	460301	${\tt TAACAGGATATGCTGATAATGCTAAGTTAGCTGTTTTAAAACTTTATCGT}$
10	460351	${\tt GAAATTACTGGAGTTGGTTTAATGGAAGCTAAAACTGCAGTTGAAAAATT}$
	460401	${\tt ACCTTGCGTTGTAAAACAAGATATTAAACCAGAAGAAGCAGAAGAACTTA}$
	460451	${\tt AAAAGCGTTTTGTTGAAGTTGGTGCAACTGTTGAAGTTAAATAAA$
	460501	${\tt CAGTACAACGACGGCGTTCTAGTAAACACCGTCGTGATAAAAGACGTTCT}$
15	460551	${\tt CACGATGCACTTACTCTACAAACTTTAAGTGTTTGTAAGAAATGTGGTAA}$
	460601	${\tt GAAGAAGTTATCACATCGTGTGTGTGTTTTTTTTTTTTT$
	460651	${\tt GAGTTAAAAAAGCTCACTAATTCACAGATAAATATTATTGTTTTTTTGCA}$
20	460701	${\tt GTTGAATTTGTATTACTTTTATGCAAAATAACAGCATTTTTTGATTTTAA}$
	460751	${\tt ACGCTTAGCTCTGTTTAAAGAAATAATCCCTTTTCTGGCTAAACGATCTG}$
	460801	${\tt CTTGAGAATAAACAGAACTGAGATTATCTAAATTAATCTCTTTATTAAAT}$
	460851	${\tt TTTTTAACATTAGTTTTAGTTTTAGTTTTTTTTTTTTTT$
25	460901	${\tt TCTCTTAATGTCTTGACGTAATCGTTTTTCGTTAGATTTAATATTAGCCA}$
	460951	${\tt TTTAGGTTATTAGTTTTAGAGTATATTATCTTGATTATTTGT}$
	461001	${\tt AACTAGAACCATATATGGATGGTGGACAACAAGGGAGTTTTTTTGGGCTT}$
30	461051	${\tt TTAGTAATTGTTATTCCAAGAA}$
	461101	${\tt AAAAGGGGCACAAAAAATGATTTTAGTGGTGAAGGAGGTAATCGATCAT}$
	461151	${\tt CAAGAAAAGATGAAATGAAAAACAATTAAACAGTTTTTGCAAGAAAAG}$
	461201	${\tt AATGAACGTGGTAAAGAAATTATTAAAACTTTTGTAGCTAAAAAACCAAA}$
35	461251	$\tt CCCTTTACATCAAAAAAAAGACCGCAAGCTTTTCAATCAA$
	461301	${\tt CATATATTACTAGTAATAACTTAGGAAAAAGCGAAAACGTTATAAA}$
	461351	AATGAGCAAACTCGCTTAATGCAAAGAGAACTTTATTGTATTTATT
40	461401	TACAAAAGATGCTAAATCAACTGAAGTTGATGATGCTAGGATTATAGAAG
	461451	CTGAGGTTTATCAAAAACCTACAAAAACCAAAAGTACTCCAGAGCGGCTA
	461501	ATTCGTATACTTGGTTTAAAAAATTTTGAAACTGAAATGCAATGAATTCA
	461551	ACCATTAATGGTTCGTGAAGAAAAGAAGAAAAAGAAAAAAAA
	461601	AACTTAAATTAGCTGCAAGAGAACTAAAAAAGAAGAAAAAAAA
	461651	AAAAAACCAAAAGAAATCAGAAATCAGAAAATGTTTAAAATTGTTTTCT
50	461701	TTGGTACTTCAACGCTTTCAAAAAAATGTTTAGAACAACTTTTTTACGAT
	461751	AATGATTTTGAAATTTGTGCTGTTGTAACTCAGCCAGACAAAATTAATCA
	461801	TCGTAACAATAAAATAGTACCTTCTGATGTTAAGTCTTTTTGTTTG
	461851	AAAACATAACTTTTTTTCAACCAAAACAAAGCATAAGCATAAAAGCTGAT

	461901	${\tt CTAGAAAAATTAAAAGCTGATATTGGTATTTGCGTTTCATTTGGTCAGTA}$
5	461951	${\tt TCTTCATCAAGATATTATTGATCTTTTTCCAAATAAAGTAATTAACTTAC}$
	462001	${\tt ATCCTTCTAAGTTACCACTACTTCGTGGTGGTGCACCATTACATTGAACC}$
	462051	${\tt ATTATTAATGGTTTTAAAAAATCTGCATTGAGTGTAATTCAATTGGTTAA}$
	462101	${\tt AAAAATGGATGCAGGTCCGATTTGAAAACAACAAGATTTTTTAGTTAATA}$
10	462151	${\tt ATGACTGAAATACTGGTGATTTAtCCATATATGTAGAAGAACATTCACCC}$
	462201	${\tt TCTTTTTTAATTGAATGTACTAAAGAAATTCTCAATAAAAAAAGGGAAATG}$
	462251	${\tt ATTTGAACAAATAGGTGAACCTACTTTTGGATTAAACATAAGAAAAGAAC}$
	462301	${\tt AAGAACATCTTGATCTTAATCAGATTTACAAGAGTTTTTTAAACTGAGTA}$
15	462351	${\tt AAAGGTTTAGCTCCCAAACCTGGTGGTTGGTTAAGCTTTGAAGGAAAAAA}$
	462401	${\tt CATCAAAATTTTCAAAGCTAAATATGTTAGTAAAAGTAATTACAAACATC}$
	462451	${\tt AATTAGGAGAGATAGTTAaTATCTCGAAAAGGAATTAATATTGCTTTA}$
20	462501	${\tt AAAAGCAATGAAATTATTTCAATTGAAAAAATTCAAATACCTGGAAAAAG}$
	462551	${\tt GGTGATGGAAGTAAGTGAAATAATAAACGGAAAACATCCTTTTGTTGTTG}$
	462601	${\tt GTAAATGTTTCAAATAGAATGATTACAAAGAGTTTTTTCCTTAAAAATTT}$
	462651	${\tt TGATCGCTCTAAAGAATTAATTCCTCTTTCATATAACGATGTTTTTAGCG}$
25	462701	${\tt CTGTTAATCAGTTTCTGAAAAGCTATACTGACGTTAATGATATTGATATT}$
	462751	${\tt ATTGAAGAAAATTTGATTGAAGATCCAGTTTTTGAACTTGATGTTTTAGA}$
	462801	${\tt ACTTTTAAACGAGGATCCAATGCTATTATTGGACAGTAAAAATCCCCGTG}$
30	462851	TTCAAGAAGCTAAAATTATTGCTAATAAAGCAAAAAAAAA
	462901	TATTTTAATCTTCCCATTTTTTTTGATACAGATAGTTTAGATAAAAATGT
	462951	TTCTGTTTATCAAAAAGCTGAGCTTACTGAAAAGAAAATTCAAGAAATAA
	463001	TAACATCAAAAAATCAGCTATTATTTTAAACCTATTTTTGAAATAGAA
35	463051	GATTGCTTAATTCAACCAGATGCTATTATTGTTCATGAAAAAGGACTTTG
	463101	TGAATTTGTTATAAAAGCTACAACCAATACAAAAAGAAAATATTTTT
	463151	TGGAAATAATTTATGACTTTGTGTTATTTAAAAAAATAGGTAAGTATAAA
4 0	463201	CTTTTAAACTATTATTTTTGTACTGTTAAATACGAATTACAAAATAAAAA
	463251	TAATGTTTCTTTTTTTAAATACTGAAATAAAAACATCAAAAAACAGTT
	463301	TTAGTTTAAGTTCAAAAGAAAAAGATTATTTTAAGAATAAACCTTTTAAT
	463351	CACCCTGAAAAATTGCTTACATACACAAAAAAAAGAGCAATGGAGTTAA
4 5	463401	TGGTTTTTTGATTGTAAAACTCATTGATAACCTTATTAAAAACAATATAG
	463451	TTGATTTAAACAAAATAAGTGATTTTGTTACTAAAGAAATTGACAGTAAA
	463501	AGTGTTCGTAATATTCAACCACTTATTAAAAATGCGGCTAAAATACAAAT
50	463551	TAATTTTTGAGATCAAATACAAGATATAAAAAAATATCAAGAACTCAAAA
	463601	TAAATCAAATTGTTTTTAATTACAGTGAAAATTTTGATTCTTTTTGGAGT
	463651	AACTATTTATTAAGAAATTTAATTAAATTAGTTTTTGCTCATAAATACAA

	463701	TGAAATTTTTAAATTATCTGGTAAATTAGCTAATTGAAGTCAATTAACAT
5	463751	ATGCATATAAAGAAAATAAATCAATTAAATCAACTGCTTCACGAA
	463801	TTAAATCAGAAAAAAGCAAGGCTAATTTTAATAACTCAACTAATAAAAT
	463851	${\tt AAGTTTTTTCTTGAAGCGTGAAATAGTGAAAAAGGTTTTGCAATTGGCAATTGGCAATTGGCAAAAAAGGTTTTGCAATTGGCAAAAAAGGTTTTGCAATTGGCAAAAAAAGGTTTTGCAATTGGCAAAAAAAA$
	463901	${\tt ATAAATTAAAAATACTTGAAATAAACTTAAAAAAAAGAAAG$
10	463951	${\tt GATTTTGAAACAATTAGTTCATCAATCAGAATCATAAATAA$
	464001	${\tt ATTTAGTCAAATTGTTACCCAATGCTCATTAATAGTTGATAAAAATGAAA}$
	464051	TAGATGATAAAAGAAAACTTAATTGTGAAAATCTAATTTTTGATCCCTTA
	464101	TTTATTAGCGTTAATGACTTTAAAAAAGTAATTGATTCACTCTATCAAAA
15	464151	CAATTGCAGTGATTATAGTTTTTGTTGTTTTTAATAAATCTTTTGAAAAAA
	464201	${\tt ACAGATTATTGGAAATGGCTACATTGATTAATGAACAAATATATAAAGAA}$
	464251	${\tt AAAGTAAAAGCTATTGTTGACAATCTTTTTGACTTAGCTGATATTTTTAC}$
20	464301	${\tt TATTGAAAATAACTGTTTGGCTTTCAAACAGCTAAACGGTTTTTCCTCTA}$
	464351	${\tt TCAAAAAGGTTTTAACTATTATAGATGAAAGCTTTTTAAAGGCAAGTAAA}$
	464401	${\tt TCAATTGGTTATCAAAATTTAAAAATCCAAAAAGGTGATGTAGCACAAGA}$
	464451	${\tt AGTTGCTTTATCGCGTTTTCTAAATTGCTTAAATAAAAATGAATG$
25	464501	${\tt AAGTAGCTTTTGAATTAAAAAAATATTGTGAAAATGATGTCAGAGCGATG}$
	464551	${\tt ATTTCAATTGTTTTATTTATCCAAGATTTAATCAAAAAAAA$
	464601	${\tt TACTTTTTATTCAGAAAATTAGAACCTGCTTTTCTACTATTTCACCTAAT}$
30	464651	${\tt TTTTTTAGGTTTAATAGCTAGTTTCTTACACATCTTTTGATTTTCTATC}$
50	464701	${\tt TTCTCTTTTAAATCACTAAAAAAATGGCTTCCTTTACTACTTTTTAAAAA}$
	464751	${\tt ACTTGTAAAAGAAGCCATTGCGTTGTGCTCTAAAACACTTTTATCATCGT}$
	464801	${\tt AATTTTGTTATTTGGGATAGCTTGTGATCAAATAATATCACCATCAAGT}$
35	464851	${\tt TCAATTATACTAAGTACCAAATTATTTGAAGTTAAGCTTACCCTAACTCT}$
	464901	${\tt TGGTTCAGGTAATTTTTGCTCTTGAAAAAGTGAAAAGAAATCGTATTTTA}$
	464951	${\tt AAATCTCAGAAAAAGTTCTTTCAAAAAATATTTTTCAACAAATTCAGTT}$
4 0	465001	${\tt GCTTTTTTCATCCCCATATCTTCATAAATGGCGCCAACCAA$
70	465051	${\tt TACATCACCAACAGTGTTTTCAGTTAGTTCAGCACCATTGCTTAACTTAA}$
	465101	${\tt CAAAATCACCTAATTTTAGCTCCATACCAATACGATTAAGATTTTCACCC}$
	465151	${\tt TTAACAATTTCAATCTTAGTTCTTGTTAAAAGACCTTCGTTATATTTAGG}$
4 5	465201	${\tt ATAAAGTTCAAATAGTTTTTTAGCAACAACAAAGTCAATTAAAGCATCAC}$
	465251	${\tt CTAAAAACTCTAAGCGATCGTAACTTTCACTAACATCTTCATGTTCATTG}$
50	465301	${\tt ATGTAAGAAGCGTGAATAAAAGCTTTTTCAAAAAATTCTCAATTATTAGG}$
	465351	${\tt AAAAATATCTAAAATTCTTTAAAAAAGTTGCTAGTTTTTTATCAAAAATCT}$
	465401	${\tt TATTATTTTTAGTTTCAAAACTTTATTCTTCATAGTTATTCAAAGAAGT}$
	465451	${\tt TTTAATTGCATTAATAAGATCAGATTTTAAGCTTAGATGTGCTAATCTAA}$

	465501	${\tt TCGTGCTTAAAAATTGTTGTTTATCAGCAGAACCGTGAGTTTTTAAAGCT}$
5	465551	${\tt AATTTATTTAAACCCATTACAACAGCTCCAGCGTTATTTTTGTAATCAAA}$
	465601	${\tt TTTTTGGCTACACTTTTGATAATACCTAAGCTAAATAAGCCAGCAAGAG}$
	465651	${\tt GATTTCTTTTATAACCCCTCTTAAGAATCCGTGCTATCGTTTTAAAAGTA}$
	465701	${\tt CCTTCCATTGCTTTTAAAACTAAATTGCCGCTATATCCATCAGCTATCAA}$
10	465751	AATATCACATATCCATCCAGTAAAAACCTTGATTCCACAAATCCTAAAA
	465801	${\tt AGTTAAGATTTTATCAGCTTTTAAAAGCTTAAATGCTTCTTGATGATAA}$
	465851	${\tt TCAAAACCTTTATTTCTTCTGTTCCTATATTCAATAGTCCAATTTTAGG}$
	465901	${\tt AGTTTTTTTGTAGTTGTTTTTTTAACAAAAATATCAGCCATTAAACCTA}$
15	465951	${\tt AAAAATAAAGTTCTTTTCCTGTGAAATATTTATTAGCTCCAACATCCAAA}$
	466001	${\tt AAATAAAACCAATTATTGTTATCTGTCGGTACATAAGACATAAAAGCACT}$
	466051	${\tt CTTAGTATTTTATTAATTTTGCCAAAAGCATCATTTGTTAAAGAAGCAT}$
20	466101	${\tt AAACTGCTGAAGAGCCTGCTGAAATTACAACATCAGCATTACCTTCACGA}$
	466151	${\tt ACTAAGTTTATGGCTATTTGCATTGAACTGTTAACTTTTCTTCTTGCACT}$
	466201	${\tt TAGTGGAGTGTCGGTCATTTCAATGAAAGAATTAGCAAGTTTTTTGTAA}$
	466251	${\tt TATTTTTGGAAGTATATCAAGACCATCAAAAGCCTTTTCATCACCGATC}$
25	466301	${\tt AGAATGAAATTTAAGTCCTGATGAAAACTCCAATATTTCAATACTGCTTC}$
	466351	${\tt AATTGCTTCACTAGGTTTGTTTTCAAAACCTAAACAATCAACTGCAAATC}$
	466401	${\tt TAAAAGCCATTACTGTATGCCTATTATGTAAGAGAACACTTTTTGTTCTC}$
30	466451	${\tt CAGGTGAAAATTCACAAAACAATTTATATTTTTTTCAACTAAAGCTTGC}$
	466501	${\tt ATTTTTTCGCATCTTGTTCAGTGATGTCTTTGCCATAATAAGCCAAAAG}$
	466551	${\tt GAACTCAGGTTTTTTCACTTTTTTGAAAGGATATCAATTGTTTTAAAAA}$
	466601	${\tt AACAGTCTGTAAGTTGAGATTCACTAGCAATAATACTTTTATTTGTAACA}$
35	466651	${\tt GCAATAAAATCATTTTATTCACCATTACTTTGTTTTCTTTATATGACTT}$
	466701	${\tt TGAAGCTTGTGTTATCGTAGCGGAAGCAAACTCTTTAATAAAGCGCTTCA}$
	466751	${\tt TTGCTTTCACATTAGTGTGAATAGAAAGATCACTGTTAAATACAGTTAAA}$
40	466801	${\tt GCAGCAATTGACTCCACAGGATTTGCTGTAATAACATAATCTGCATTAAT}$
40	466851	${\tt CTTTTGGTGTTTTAACTGTTTAATTGTTTCATTGGCAGATAGAAAATAGT}$
	466901	TTTTATCATGTAACAAAAAGATTACATTACTAGAATTGGTTAACTTAACA
	466951	GCCTCAAGTAAAGAAAAACAGAAGGAGCCCCAGTATCATCAGTACATAA
4 5	467001	TATGGCGTTAATATCATGATCTTCACGAATTCTTTCAGCAAATGCTTCTG
	467051	TAGGTACAGTAGCTACTATAGCAGGTTTTAAAACTCTTTTTGTTGGTGAG
	467101	TTATTCTTGTTATTAACCTGTAAATTCATGTTATCAATTTTGACAAATTC
50	467151	AAATTCACCATAATTAAGACCCATTTCTAATAAAAGATGTGGTTTTAAAG
50	467201	TATGAGCATGAACTTTAACAAAACCATTGTCTTTATCACTAGCAATTACT
	467251	ACAGAATTGGCAATTCTATTTACTTTACTTTCAAACTTTTTTTGATGAAA

	467301	${\tt TTTTTGCTTTTCAACTGTCTGATTTATTTTTAAACCTAGTCTTAAAACAT}$
	467351	${\tt ATTCTGTACAATAACCAAATTCATCTTCATTAGCATGTTGTTCTTTAAAC}$
5	467401	${\tt TTGTTAAATTTAATTTCTATAGTTGATAAAGTATTGTCATCTAAATTAGA}$
	467451	${\tt TTCGCCCCCATAATATGACAACATTCCTTCAAGAAAACAAGCAAAACCAT}$
	467501	${\tt AAGCACCTGAATCAACCACACCTGATGCTTTTAATACAGGTAACATTTGG}$
10	467551	${\tt GGAGTTTTTTCACTGCTTGTCAAGCTACTTTAACAGCTTGTTCAAAAAG}$
	467601	${\tt TTTTCAAGTGTTTTAGGACGATTTTTTTGACTCTTAAACTCATTGCTTA}$
	467651	${\tt TTAAACGAGCAACTGTTAGCATAGTTCCTTCTACTGGTTTTGATACGTTT}$
	467701	${\tt TTATAAGCCACTTCTTGAGCAACAATGAATGCATTTGCAACATCTTCTAT}$
15	467751	${\tt ACTCAACTCTGAATTATTGCTTGTTTTTTTTACGATTATGTTACTGAAAA}$
	467801	${\tt ATCCTTTCATTATTTGTGAAAAGATAACCCCTGAATTGCCACGTGAAAAC}$
	467851	${\tt AAAAGTAAATCTCTAGTAAAGTTTTTACCAAGTTCACTAAAGCTTTTTAT}$
20	467901	${\tt ATGACTTTTTCATTTCTAGTTTCTTGATGGCTTCTGTTATTGTTACTT}$
	467951	${\tt TCATGTTTGTTCCAGTGTCACCATCAGGAACAGGAAAAACATTCAACTGG}$
	468001	${\tt TTTATGTATTCATAATTTTTAGCGATGTTATTACAGCCAAGGCGTAACAT}$
	468051	${\tt ATCGATAAAAGAAGATAAATTTACTGATGACATCTAAAGTAAAACCCTAG}$
25	468101	$\tt CTTATAAGGGATAAAAAAGAAGTTTATAACCACAATAATTTTAAATTTTA$
	468151	${\tt ACTATTGAATTAAATATTCAAACCAAGGTACTATTTTACTCTTGAATTGC}$
	468201	${\tt ATTAATGAATAATTTGTTAAAATGGGAAACTTGCTCGTTTCTAGTTTAGG}$
30	468251	${\tt AAAAACTAATTCATAAGCGTGAAGTGCTTGATGCTTATATTTATT$
	468301	${\tt GATTTTAAATTGAATCAAGCTGTATTTTTTATCACCAACTAGTTGATTT}$
	468351	${\tt GAAAATAAATTTAAACACGCACGAATTTGGTGAGTCCTACCACTAATTAA}$
	468401	${\tt TCTAATTGTTATTAAAGACATATCTTTTTGAGCTATGTATG$
35	468451	${\tt CAAAAAAGTGCTTATCTTTTTGCTTCTGGAAAAGGTTTTCATTTTACT}$
	468501	${\tt GTTACAATGCCATTATTGTTATCTTTTTTCAATAAGCAGTTTGTAAGCC}$
	468551	${\tt AAGATGGTTAAATTGACCAAAAACTAAGCCTTTATATCTTTTGGTTAAAT}$
4 0	468601	${\tt GGTTATTTTAAAAACTTTGTTCAATTCTTTTAAAGCTTTGTTTTA}$
40	468651	${\tt GCACCAATAACAATTCCAGAAGTATTACGATCAATACGATGTGCAAACTG}$
	468701	$\tt GGGATAAAAGTTAAGTTTATTACTGTCAAATTGTCTATATCCACAGTGTT$
	468751	${\tt TTAAAAGCATATTTGATAAATTAATAATGCTATGTTTTTTATCAGGTTGG}$
4 5	468801	${\tt CAAACTATTCCAGTTGGTTTGTCAACTACAATAATATTTTCATCCTCAAA}$
	468851	${\tt TATAATTTTAGCTTATCTTTTACCAAATCTAGAGATAAATAGTCATTAT}$
	468901	${\tt TAGTTTGTAAATAGGGATTTATATCAAAAAGAAAAGCTATCTCATCTTTA}$
5 0	468951	${\tt GTTTTTAATCTTGTGTTGACCTGTGGTTTTGTTTTATTTA$
50	469001	${\tt TCCTAAGCGTAAATACTTAAAAAAGTCACTTCTTTTAATTAA$
	469051	${\tt TTTTAAACAAAATTGGTCAATTCGTTGGTTTTCACTTTCTTT$

	469101	${\tt AAAAATTTATTAGCTATTCTCATTTTGTTTGGCAAGAAAATCATCCATTA}$
5	469151	${\tt TCTGTACTAATTTCATAAATTGATTTTTTCATCCAAAACAAAAGCAGCT}$
	469201	${\tt GCATATTTATGTCCACCACCATTGAACATTTGTGCAAAGTTATTAATTGG}$
	469251	${\tt AATATTACGTGAGCGAATGGAACCAATTCATTTTTAATGGACTCGTTAA}$
	469301	${\tt AGTAAACAGTAGTCCATATTTTTACTCCTTTTATGTTATTCAAAGCATGA}$
10	469351	${\tt ACCATTGGTAAAGGAGAGACAACACCAAAATGTTTATATGCTCCTTTTTT}$
	469401	${\tt AATCAATGCATAAGCTAACCCATTTTTAGTTATTTTGGCTTTGCTAAGTA}$
	469451	${\tt CATAGCTAAAGTACTTATGTTCTAGTAATGGCTTTAAATAAA$
	469501	${\tt TGAACCTTATTGCGGTTAAAACCAGTTTCCATCAATTTTGCTGTTAGGGC}$
15	469551	${\tt AAATGTTTGGGGTGTAGTAGTTGGACCTCAGAATCGCTGTGTATCAGTAA}$
	469601	${\tt TTATTCCTGCATAAAGATATGATGCAATCTCATCATTTAATTTGTAACCC}$
	469651	${\tt ATCTGCAAAATTAAATAACCAATCATCTCAGCAGTTGCTGAAAAAGAAGA}$
20	469701	${\tt ATCAATTCATATCAGCAAATTTTTCAGTTCTAGGATGGTGATCTA}$
	469751	${\tt TCCTAACTGTCTCTTTTGCCAACTTATGTTTTTGAGTTAAAACTCTTTCT}$
	469801	${\tt TGGTTGGAAGTATCAAAAATAATAGCTAAAGATTCTTTTACAAAATCATC}$
	469851	${\tt ATTTATGTCAGTTTGCTCAAAAGGAAAAAGTTCTCTACCGTCTGCATTAA}$
25	469901	${\tt TATTGTATGAACCCATAACATAAGCTTTTTTTCACTGAAAAAAGTATTT}$
	469951	${\tt AGGAAAGTTTTGAAAGCAAAAGCAGATCCAAATGCATCAAAGTCTGGGTT}$
	470001	${\tt TACATGTACAAATAAACTGAACTTATCAAACTGTTTAACCTTTTTTGAAA}$
30	470051	${\tt AATTCTTAATGAATTGTGGATCGATACTAATCATTGCTTAATTCACTTAC}$
	470101	${\tt TCCCTTTTCAATTAAATCATTTAAAAAAAATAAGCTCACTTTCAAGCTTTT}$
	470151	${\tt CAACATTTATCAATTTAGCTTTCGTTGTAGGATTTTTGGGAGAAACTCA}$
	470201	$\tt CTACAAGTATCTAAATGTTGTTCAATAGAAATATCAAAAGTATTAAAAAA$
35	470251	${\tt TTTAGCTAATTCAATAATTTTATCTTTACTAAAGCCAATTAAGGGGGCGAA}$
	470301	$\tt CTATAAATGTATCTGGTGTTGCTGATTGAATAACTTTTAAATTTTCAATG$
	470351	${\tt GTTTGGGATGCAACTTGTCCCAAAACCTCACCTGTAACTAGACAATCATA}$
40	470401	$\tt CTTAAACATACTAGCAGCTTTATAAAAACACGACGCATTAAAACGATAC$
	470451	${\tt GATAAGATTCATTACTAATATGAATTAACTCTTTTTGAATTGCAGTGAAA}$
	470501	${\tt TCAAAAACTAATAATTTACCACTACAAATCGTTTTATTAAAAGAAATTAA}$
	470551	${\tt ATTTGCTAACCTTGTGATTTTTCAATTGTTTTTTGATTCTTATTTGGTT}$
45	470601	CATTAATAAAGGTGATAAAATCAATGTTAAAACCACGTTGCATTACAAGT
	470651	${\tt GAAGCTGCAACTGGGCTATCAATTCCTCCTGAAAGTAAGACTAAAGCTTT}$
	470701	${\tt ACCACTACTATAAACAGGTAATCCACCTTTACCTTTAAAACGTTCTGTAA}$
50	470751	AAACAAGAAAATGCTCCTTCAAAATCTCTATATTAGCTATTATTTCAGGG
30	470801	${\tt TTATTAATTACTCCTTTTAATTGGTATTTTTCAAATAGTTTAACTGCTAA}$
	470851	ATACTTCTTAAAATTACTTGAATTTTCAGCAAAATTTTTATCACGTCTCT

	4/0901	TARCITCIANTITAAAGAATTAAAATCITTAAATAAATTAAAATAAAGAAGA
5	470951	TCTAATAGTTTGTTTTCTTCCCTTACTATCTGTGATGCAAAAAAGAACAA
	471001	ACTAATTCCAGGCAAAAAACTGAATAATTCTTGGAGAATCGCTCTTTGTT
	471051	CTTTTTTAATATCAAAGACAACAATTCTATCAAAATTCATAAACAATACTA
	471101	${\tt TTGTTAATTTCCAGTTTTTTAAAAGCTTTTTTGATGTTAATTTTTAATTG}$
10	471151	TTTTGTGAAATAAGAACGGTTTTTTCCTTTTAAAACCAATTCACCATAAC
	471201	GCGCAACTAATACATCTTCACTATTCAATTCCATTTTCCTTTAATCATTG
	471251	${\tt AATATCACTTTCTGTTAGTTTAGGACTTTTACCAGTTAATATGTAATTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTAGGACTTTACCAGTTAATATGTAATTTTAGGACTTTAGGACTTTTACCAGTTAATATGTAATTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTTAGGACTTAGATTAGGACTTAGATTAGGACTTTAGGACTTAGATTAGGACTTAGATTAGGACTTAGATTAGGACTTAGATTAGGACTTTAGGACTTTAGGACTTTAGGACTTTTAGGACTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTAGATTAGGACTTTTAGGACTTTTAGGACTTTTAGGACTTTAGATAGATTAGATTAGATTAGATTAGATTAGATTAGATTAGATTAGATTAGATTAGATAGATTAGATTAGATAGATTAGATTAGATAG$
	471301	CATATCAAATTCTCGCCTTATCAACTAAAACACTAAATCCCTTATGATCT
15	471351	${\tt ATCTTGATAGGAATTAACCTAATTTCTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGCTAGCATTAAATTGTTCTATTGTTAGCATTAAATTGTTTCTATTGTTAGCATTAAATTGTTTCTATTGTTAAATTGTTTATTGTTAGCTAGATTAAATTGTTAGTAATTGTTAGAATTGTTAGTAATTGTAATTGTTAGTAATTGTAGTA$
	471401	TGGTAAGACATAATCTTCTGGTTTCAAAAAGGCAATTGCAAAAAGTCCTT
	471451	TATTTACATTGCGCAAATATAGATAAAGACCAATTTGACAATAATATAAA
20	471501	$\tt GTACTGATAATAATTTTTCCATTACTGTCAAATCAACTATCTTTTTTGCC$
	471551	${\tt ATCTTTCTTTTAACAATAGGCATACCATTTTCATCAAGAATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTGATCATCTTTGATCATCTTGATCATCTTGATCATCTTTGATCATCATCTTTGATCATCTTTGATCATCTTTGATCATCTTTGATCATCTTTGATCATCTTTGATCATCTTTGATCATCTTTGATCATCATCTTTGATCATCATCTTTGATCATCATCATCTTTGATCATCATCATCATCATCATCATCATCATCATCATCATCA$
	471601	${\tt GATTTCCATTGATTTTTTTATAAATAAGACTATCGCAAGAAGTTGTTTTATAAATAA$
	471651	ATCTCTAACATAGGAAGATCATTTTGATAAGCTAATTCACCATTTTCATC
25	471701	AAGAGGTTCACCATCAGGTATCCCACCAAAAACACTATCATCCTTAAATA
	471751	AATCAAATTGAACTTTTTTAGGATCATAAGAATGAAAATTAAAACCAGTT
	471801	${\tt TTTAAATTGACATAATCACGTATTTTAGGTTCTATTATGTTTCCAGCTTTAGGTTCTATTATGTTTCCAGCTTTAGGTTCTATTATGTTTCCAGCTTTAGGTTCTATTATGTTTCCAGCTTTAGGTTCTATTATGTTTCCAGCTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTATGTTTCCAGCTTTTAGGTTCTATTAGGTTCTATTAGGTTCCAGCTTTTTAGGTTTCCAGCTTTTAGGTTCTATTAGGTTTCCAGCTTTTAGGTTCTAGGTTCTATTAGGTTTCCAGCTTTTTAGGTTTCCAGCTTTTTAGGTTCTAGGTTCTAGGTTCTAGGTTCTAGGTTCCAGCTTTTTAGGTTTCCAGCTTTTTTAGGTTCTAGGTTGTAGGTTCTAGGTTCTAGGTTCTAGGTTCTAGGTTCTAGGTTCTAGGTTTGTTGTGTTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTAGGTTTGTGTTGT$
30	471851	TGCCAGTGTTTCATCAAATTCATCATCATAAATTTTGACCATATTAGCTC
00	471901	AAGTTTTAAATGATGACTCATATTCAGATAAACCTAAAACCTTGCCAAAG
	471951	$\tt CGAGTACCGGTTATTTTTTTAAATAGAGCTTTATTTCTTAAAAAAATACTG$
	472001	${\tt TTCTGATAGAACAATTTGATTATCAACTATATCAAAATCAGTTTTATATTTATATTTATATTTATATTTATATTTATATTTATA$
35	472051	${\tt GCTTTATAAATCCCATTTATTTCATCAACTGTTCACAAATTCCTTTTAAA}$
	472101	${\tt ACAATTGATATTTCAGGATTATTTAAATTCCTCATCATTATCTGGTTGTTT}$
	472151	${\tt TTTGCTTAAAAATACAACACTTGCTAATTGATTAATTGTAATTGGAAAAAAAA$
40	472201	$\tt CTTCTGTCACATTTAAATAATGAACATCTTTTAAAGAGCAATTCTTGCTT$
- 0	472251	${\tt TTAACATATGTTTCTAAAGCACTAAACTTGGAATTTTTTGTGCTAGTAAACTTGGAATTTTTTTT$
	472301	${\tt TAAAAAATTTCGTTATAAAAATTGCTGTAATGAAACTTAGGCTGACCACCACCACCACCACCACCACCACCACCACCACCACC$
	472351	${\tt TAGAAATATGTTCCATAAGTTGAAAGTCTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAATGATACTGAGGACTAAAATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGAGATGATACTGATATATAT$
45	472401	ACATAAATAGAACTAACATCCATTTCACTGAGATTTTTTAAGAAATTTTG
	472451	$\tt GTACTTTAATGTTTGGTCAAATTCCGTTAATCAAATTAATT$
	472501	${\tt TATATTTTCTAATGAAATAAAGTAATTAATTGTTGTATTAGGTTCCTCA}$
50	472551	CTAATCTTGCTTTTtCCAATTGCAAAAACACCAGAATTAGTAATAATAGC
50	472601	ATGGTGTACAATAGTGTCTATACTAACAGAATCTAAAAAAGATTGATAGA
	472651	TAAATTCATTGGTTTTGCTAATTCATATAATCGCGCCTGATTCTGCAATT

	472701	${\tt ATATCAACATCATCTAACGAGGAGTAAATCAAGTAAATAAA$
	472751	${\tt TTGTCAACAACTTGACATAAAAACAAGTTGATGGTTATTCGCTTGAATGA}$
5	472801	${\tt AATTAAAAAAGTTTTTCATACTTCTAAATCCTTTGTAGTGTTAAAAAAA}$
	472851	${\tt TTTGCTGTATTAATATCTAAAACAACTATTTTCTATCCATCTCTTAA}$
	472901	$\tt CTCTTTTAACAAAATTATTAAAGCTAATTCTGGTGATTTTTTCACCTTTA$
10	472951	${\tt AAACCACGGCATGTCAACTTCTCTAAATTCTCTATTTCTTTATCTCCAAC}$
,,	473001	${\tt AATAAGTTGTAAAGGAATTTTTTCAATGATTGCTTGTCTAACTTTTTTAG}$
	473051	${\tt CTAAGCGATCTTGATTATCATCTAAATTTACACGGATGTTTTCTTTTAGC}$
	473101	${\tt AATTTGTTATAAAGTTTTTTTGCTGCCTTTAAATGCTTTTGGATATTAAC}$
15	473151	${\tt AGGAATAATTACGGCTTGAACAGGTGCTAACCATAAAGGAAAATTACCAC}$
	473201	${\tt TTGTTTTTCAAGTAAGCAGCAATAAACCTTTCATAAGTTCCAATAATT}$
	473251	${\tt CCAACATGGATAATAACTGGTTTTTTTTTTTTTTTTTTT$
20	473301	${\tt AGTTAGATCAAATTTTTCTGGTAGTAAAAATCTAGTTGAATGGTGGCAA}$
20	473351	${\tt TAGTAATCATTTTTTAAAGATTGTTTTGAACTGAAAATCAATTTTTGGT$
	473401	${\tt CCATAAAAAGCAGCAGCTCCTATCTCTTTTTGATATTGGATATTTAAATC}$
	473451	${\tt TTTTAAAACATTCTCCATTTGGCTTTCAGATTCTCTTCATAAACCAGGAT}$
25	473501	${\tt TATCAATAAATTTTGATTGATTTTTAGGATCATGTAGAGAAAGATCTATC}$
	473551	$\tt CTATCAAATATAAATCCAAATTTTTTATTAACTTTTTGAATTAAATTAAA$
	473601	${\tt TGCGTTTTAATCTCACTTTTAATTTGATCTGCACGACAAAAAATGTGAT}$
30	473651	TATCAAGTAAAGTCATGCACCTCACTCTTTCTAATCCTATTAATCCTCCA
30	473701	GAGGCTTCAAAACGATGCAAAATAGAATCTTCTGAAAAAGCGCTGTGGCAT
	473751	TTTTTTATATGAATATCGTTTTTGTTTGAAAATCAGACAGTGATGAGGAC
	473801	ATGTCATAGGACGAAGCATCATTGCTTGACTATCAAGTTTAATAGCAGGA
35	473851	AACATATCTTCCTTATAGTGCTGATAGTGGCCGCTAATTTTAAAAAGCTC
	473901	TATGTTAGCTAATACAGGAGAACAAACAGTATTAAAACCAAACAATAGTT
	473951	GCTGGTGATGCACAAAATTACCGATTATATTCCTTAGTGTTGTACCCTTT
4 0	474001	GCTAATCAAATAGGAAGACCTGCACCGATCAGTGGGTCAAAGCTAAATAA
40	474051	CTCTAATTGTTTACCTAAAGATCTGTGATCCTTCTTCAAGCGTTCTTCAT
	474101	TTTCTTTTATTAATTGTTCTAATTCTTTTTTTGATTGAGCAAAAATGCCA
	474151	TTAATCCTCTGAAGTTGTAATTGTGAAGGATCTCCCAAAAAATAATTTAC
45	474201	GCTTACATTTAATAGCTTAATAAAACTTTTTTTAATAAAAGTTAAAGTTA
	474251	AATCTTCTATTCAAAAATGTTTATTTTCAAAAAAGGTGATTTTAAATTTG
	474301	TTTAAGTTGCTTTTTTTTAATAAGTTTTTTGTAAACTGATCATTTTCAAA
50	474351	AAAACTTAATGCTTCATCTAAAGAAACAAATTTTTGAGAAATCCCTTCTA
50	474401	GTTTACTAGAAAGAGAGTTTAAATCAGATTCTATTTTTGCAAACTGTTTT
	474451	GTAGAAAAATTCTCATTTATATAAAAATCTAAATAAAATTCATCTCCATT

5	474501	${\tt AAAACCATGTTCACCAAACTGAACATTAGCATATTTGCATTTTAACCATA}$
	474551	${\tt TTTGTAATAAAAGAACTCCTGCAAGCATTAAGATTCTTGATAATCAATC$
	474601	${\tt TTACTTTGAATTTGGTTTCATAATTTTGACAACTTCGATTGTTTTT}$
	474651	${\tt CAAATTCCACTGCGTTTTTCTAGGTAAGTGCGCAGAATACCTTCGATGCT}$
	474701	${\tt AATTGTTTTAAATTTTTGAGTATATGCTTCAAGTTCAAATGCTAATTGAC}$
10	474751	${\tt CATTTGCATAAAAAACAAAAAAATCAGTAAAACTTCGTTCACCAAACAAA$
	474801	${\tt CGTTTCTGCTTAATAGTTACTAAAAATCCTGTCTTTTTGTGGCTTCACTT}$
	474851	${\tt TGTGCTTTCTATTTCACCTTCCAAAAAAACGCAATTTAACATGCTTTTTA}$
	474901	${\tt GCTAGGTAATTGACCTGTTAAGTTGAAATGAAATTTAAAGTGGTTAATTG}$
15	474951	${\tt TTTCTAAAACCATTCTTTCTTCTATTAATGCAGTTCTAATACCTTCAAAC}$
	475001	${\tt TTTTGTTTATCATCAAGATATTCTCTAACATTCTGATTAGTTTTTCATA}$
	475051	${\tt ATACAAGCTAATAACTCTTTTAACAATATCATCACTAACTTCAACCTTTC}$
20	475101	${\tt ATTCCTTTTGTAAGAAATTAAATACTAAAGCTTTTTTAATGATTTTTTCA}$
	475151	${\tt GCTATTGATTGATTTTTTTCATCAGCATCTTTTAACAACATCTCTTTT}$
	475201	${\tt CAAGCCTTCAACAACATTTTTTAACTCTTCAGGGTTAATTTGAAATTCAA}$
	475251	${\tt AATAACTAACAATTTCATTCATTGCTGCTGAAAACAAATTATCTTTAATA}$
25	475301	${\tt ACAATATGAGTTAGTTCGTGGTAAAGAGCACTTTCCTTAGCATCTTTAAA}$
	475351	${\tt AGAAGCTAAAATTCTTTGCCGATGTTGCTCAATAAAAGCAGGATCTGCAA}$
	475401	${\tt AAATACGATCAACTTCAATTACCTTATCATACTGAATAGGTTTTTGCAAC}$
30	475451	${\tt TTTGCAATAGATTAAGATTAGTAGCCATATTTTTAGAAACTTATTAAAT}$
	475501	${\tt TTTAATTCCTATATGCGTGAAGAATTTACATTTGTTGTGGTGTTGAAATC}$
	475551	${\tt TTCAAAACATCAAGGATTTGTTTAACTATAAATTGTAATGATCTCAATAA}$
	475601	${\tt AGCAAGTCTTTGTGCTGATAAAAGTGAATTTTATCATCATTAATTTTGC}$
35	475651	${\tt AAACTTTATACCAGGAATGAAATAAACTAGCAGTTTCATATAAAAAGTTA}$
	475701	${\tt GTTAATAAGTGCAATTCGCCTGTTTCCATAGCTTTTTGCAACATAAAAGG}$
	475751	${\tt ATAATAGACAAGTTGATTTAAAAGTGATATCTCTTTTTCATTAATCAAAA}$
4 0	475801	${\tt GACTGCAATCAGTAATTTCTTTTAATTGATCAGAATTTGCAATTCTAAGA}$
70	475851	${\tt ATACTATTCATTCTTGCAAACGCATATTGAACATAATAAACTGGATTAGC}$
	475901	${\tt AGAGTTTTGCAAATTAGCTATATCTAAATCAATTTTGATAATTGTGCCAT}$
4 5	475951	${\tt TATTTTGAGATAACATAAATCATCTAGCAGCATCTTCACTAATCATTGAA}$
	476001	${\tt AGCATTGTTTCAATTGTGATTACATTTCCAGCACGTTTTGACAAACGTAC}$
	476051	${\tt TAGCTCTTTATTTTATAGAGAGTAACCAGTTGTAATGCAAAAATTTTTA}$
50	476101	${\tt AAGAAGTTTTAGTGGTATTTTTTAAAGCATCAAATGCACAATACATCCTT}$
	476151	${\tt TTAATATGTCCTTCATGATCAGTGCCTCAAACATTAAATAGAATGTCAAA}$
	476201	${\tt GCCACGTTGTAATTTTCTAAGTGATAAGCAACATCAGTTCCAAAATAAG}$
	476251	${\tt AAGCTCTTTTATCACTTCTAATTAAAACTCTATCCTTATCATC$

5	476301	${\tt AGCGTAGTTTTAGTCAGAGTGCATTATCTTGATAAAAATAACTATTTGG}$
	476351	${\tt TTTAAGTTGTTCTAAAAGATCATTAAAATTTGTTTTTTAACAATTTCGC}$
	476401	${\tt TTTCAAATTTTCAACTATCAATAAAAACATGGATTTTATTCAAATCACTT}$
	476451	${\tt TTAATTAAAGACAAAACTTTTTGGGTGCAATTAACTAAAAAATGATCTAA}$
	476501	${\tt GAATGATGTTTTACAAAACTCTTCAAAATTTAAATTATCAACTGGAAAAT}$
10	476551	${\tt TTTCAATTTCACTAGCAATTTTATCTATTACTATTCCACTATATCCATCA}$
	476601	${\tt GGATGTTGCTGGATAGCAATATTTTTTTTAACTGCAAACTTTGATAAAC}$
	476651	${\tt ACTAAAGCTAAAAACTCGTGCTTGTTGTCCATAATCATTTACCCAATATT}$
	476701	${\tt CACAGACTGTTGTATAACCCAACAGCTTGGCTAAATTGTTTAAAACATCA}$
15	476751	${\tt CCAAAAAAAGCTATTCTCACATGACCTAAATGGATCCTTCCGGTAGGATT}$
	476801	${\tt TGCTGATACAGATTCAATTAAAATCTTTATATTTTTTTTT$
	476851	${\tt GTGTTTTATCAAGTATTCTAAGTACTTTTGATAGCTAATTTGAAAGTTT}$
20	476901	${\tt ATAAAATTATTGTTAGCAATAAAAACATTTTGGTAGTTATCCTTTTTATT}$
	476951	${\tt TTTTAAAAATCACTCAACAATACTATCTGCAATTTTTTTT$
	477001	${\tt TTTTTAGTTGGAAAATAATAGTTGAAGAAAAACCATTAAAACTATTATTT}$
	477051	${\tt TTAACTAGTTTAACAAGTTCCTTTTGGTCATCAAATTTAAGCTTTAAAGC}$
25	477101	${\tt GCTAATGCATTCTTTAAATCATTGATGATAAAAAACATTACTTTAAATT}$
	477151	${\tt ATATTAATGATGCAAAATGTCTTTTATCATAACAGTAATAGGTGCTGGG}$
	477201	${\tt CATGCTGGATTGGAAGCCGCTTTCATTGTAAGCAAATTCAACATCAAAGT}$
30	477251	${\tt AAACCTTTTAGTTCTTGATATAAATCATTTAGGTTCTTGTCCATGTAATC}$
	477301	${\tt CTTCAATTGGTGGACCTGCTAAGGGAATTGTTACTAGGGAAATTGATGTT}$
	477351	${\tt TTAGGAGGTATGCAAGCAATTGCTGCTGATAACAATGCCTTACAATATAA}$
	477401	${\tt ATTACTAAATAGTTCAAAAGGACCTGCTGTGCAAGCTATCAGAGCACAAA}$
35	477451	${\tt TTGACAAAATAGGTTATAAAAACTGGTTTCAAAGTCAAGTTAAATTAAAT}$
	477501	${\tt AAAAACATTAATCTAATTCAATCTGAAGCAATCAATTTAATTGTTAGAAA}$
	477551	${\tt TGAAAAATAAAAGGCGTTATTTTAAAAGACGGAAGTGAACTTTTAAGTG}$
40	477601	${\tt ATGCGGTTATTATCACTACCGGAACGTACCTAAGATCAAAAACATACTGT}$
	477651	GGTAATACAGTTAAAAATCAAGGACCTGATCAATCTAAAAATAGTGAAAA
	477701	${\tt ATTAAGCACAAACTTAATTAACAGAGGTTTTAAAACAATTCGTTTAAAAA}$
	477751	CAGGAACTCCGCCAAGAATTTTAAAAACTTCACTTGACTATAATCAAATG
45	477801	GAATTAGAAATTAATAATCAAAACCTTGCTTTTAGTACTACAAATAA
	477851	AAATTTCTTACCACTTGAAAAACAAATACCTTGTTACTTAGTTCATACCA
50	477901	ATCAAAAAATTCACGATCTAATCCTTAAAAAACTTAAAAAAATCTGCAATG
	477951	${\tt TTTAATGGTAGTATTTCAGCACAAGGACCACTTTATTGTCCAAGCATTGA}$
	478001	${\tt AGACAAAGTTTTTAAGTTCTCTCAAAAACCTCGTCACCAAATTTTTGTAG}$
	478051	AACCTGAATCATTGAGTCTAGATACTATTTATTTAGCAGGATTATCAACT

5	478101	${\tt TCTTTTACACCAGAAATTCAAAAAGAAATCATCCAGCTTTTACCTGGTTT}$
	478151	${\tt TCAAAATGCAGAAATTAAAAAGTTTGGTTACGCTATTGAATATGATGCTT}$
	478201	${\tt TTCTATCTAATCAACTAAAACCAACACTTGAAACGAAGTTAATAGAAAAC}$
	478251	${\tt TTGTATTTTGCTGGACAAATTAATGGCACTAGCGGTTATGAAGAAGCTGC}$
	478301	${\tt TGGTCAAGGTTTGATGGCAGGAATTAATGCTGCTTTAAAATTATTAAAAA}$
10	478351	${\tt AACCACCATTTATTTTGCAACGTAATGAGGCTTATATTGGGGTTATGATT}$
	478401	${\tt AATGATTAGTTACTAAAACAATCAGTGATCCATACCGTTTGTTAACATC}$
	478451	${\tt CAGAGCAGAATATAGACTATGATTGAGAATGACAATGTTCAAGAACGGC}$
	478501	${\tt TCATTAAAAAAAGCTTTGAACTTGGTTTAACAGATAAAAAAAA$
15	478551	${\tt TTGTTCCTTAAAAAGGAAAAGAAAAAAAACAGGAATTAATT$
	478601	${\tt AAACACTCAAGTAGGCAAGGTTAAAGCATTGAAATTCACTAATAAAAATA}$
	478651	${\tt CCGCTCAATCACTTTATGACTTCAACAAACGAAGTGAAATAAAT$
20	478701	${\tt AAATTGATCAAAGATCTTCCTGAAAAATACCAATTAGATTCAGAAACACT}$
	478751	${\tt TAAACAAATTGAAATTGAAATTAAATATGAGGGTTACATAAAGAAAAATG}$
	478801	${\tt AAAAGTATTTTAAGGGTTTAGATAAATTAAGCAAAATTAAAATTCCTCAT}$
	478851	${\tt ACTTTTGATTACCATAAGGTTAAGAATTTAGCTAGTGAAGCTATTTTTAA}$
25	478901	${\tt ACTATCTAACTTTAAGCCTAGTAATTTAGCAATTGCAAGTCAAATAGCTG}$
	478951	${\tt GAGTGAACTTTAATGACATTATAGCCATAAAACATTTTTTAAAAAACTTAT}$
	479001	${\tt GAATAATGCTAATTTTGAAAAATATGTTGATTTTTGAAGCAAACA}$
30	479051	${\tt AAAATTTCAACTTAACAGGATTTAAAACAAAAGAAGCTATTTATCAGAAT}$
	479101	${\tt TTAGTTATAGAAATATTGACATTATTTAAAGGATATGAAAAATTTTTTAT}$
	479151	${\tt TGACAAAACTGTAGCAGACTTGGGAAGTGGAAATGGTTCGCCTGGGATAA}$
	479201	${\tt TATTAAAACTGTTATTTCAAAAAATAAAAAGTTAGTTTTAATTGATAGT}$
35	479251	${\tt AAACACAAAAAATTAGCTTTTTAAATAAATTAACTAAGCAACTAAATCT}$
	479301	${\tt GGAGAAAACTGTTGCAATTTGTGAACGAATTGAAGTACATAAAAATCACT}$
	479351	${\tt ATGATGTTATCTGTTCTCGTGGTCTAAGTACGATTATTAAAGTTAATGAT}$
40	479401	${\tt TTAGCATTTTCCTTGCTTAACTCAAAAGGTATTATTTTTCATATAAAACA}$
	479451	${\tt AAGCTTAGACCAATACATTGAATTTGAAAAATCAAATCA$
	479501	${\tt TTAACTTGTTATTATAAAGCACTTTACTAGTCAGAATAAAAAACTAATT}$
	479551	${\tt TTGATAGCTTTACAAAAAATGATTAAGTTAGGTTGAGCGTCTTTTAGTA}$
45	479601	${\tt ATACAGAATTTGCTCAAGATATCTTTATAAAGTTTGCCAATCAAT$
	479651	${\tt AAACAAGATGATGCTGGAACAATTTTATTTGAACTAAAAAAAA$
	479701	${\tt AGTTAATCAACTAGATGAAATTGAAAAAAATAAAAAGTTATTATTGTTA}$
50	479751	${\tt ATCAGTTTCAAAATAGCTTAGGCAAATTTTTACTTTTAATAAAGAAAAT}$
	479801	${\tt ACTAAAAGAATAAACAGTTTAGCTAATGAACATATAAGTTCTTTTTAAA}$
	479851	${\tt AAAAATTTTCAGATTATCTGGATTTAAAGATATGTTGATGTTCAAC}$

5	479901	${\tt ATCATAAAAAGTTACAAAAATGTTTATTAAGAGAAATTCATCTTTTAGTT}$
	479951	${\tt TGTTTAATTAATAGCAATCAATTTAGTGATGAATTAATGCAAATTATTGA}$
	480001	$\tt GTGGTATCAGTATTTAAAAAAAACACTCTAGTAAACTTTTTGTTATTACTG$
	480051	${\tt CAAGTAGTGATAAAAACCAGTAATAGAGCCAACTATAAATGAATATAAA}$
	480101	${\tt GCTATTTTGGAGAGTATTTATCTTCATTTCACCTAGATCTAAAAAATAA}$
10	480151	${\tt TCAAAGTAATGATTATTCCAGAAATTACTTGATCAGATCAAAATAAAAG}$
	480201	$\tt CTACCTCAAAAACTAGTTTGAGATAGCTAAAAATATAAATGGCGCATCGG$
	480251	${\tt GAGGGATTTGAACCCACGACAACACGCTTAGAAGGCGTGTACTCTATCCA}$
	480301	$\tt CTGAGCTACCGACGCATTTCTTTACTAGAAACTATCATATGAATCTTCAA$
15	480351	${\tt TAAGACTCTAATAAAAGTTTAGATGATTTTTAACTTTTTTTT$
	480401	${\tt TGCAATAAAAATTAATTAAATAAAAAAATTTATTAAAAAAATCCTTAAA}$
	480451	${\tt GCACAAATATCAATAATTTCCTTTTCTATTGATTCTTAACTATTTTTAAA}$
20	480501	${\tt AAAATAGTCAATTTATTTAGTCACAAAAACCTTAGTTAAAAAATAAAT$
	480551	${\tt AGTTGCAATTGGATTGAACATATTATTTAAACTTTCTTTTAAATTAAGTG}$
	480601	${\tt TTTTAAAAGTTGATTTTAATAAATTAATTAACAAAATAAGATAAATAGT}$
	480651	${\tt TAAAAACTCAATAATAAACGCTTTAAAATATTTCACTTTGATGGATG$
25	480701	${\tt AAGGGATTTAGTTGCAATTAGTGGTGGTAGTTGCTCAGGAAAAACTACT}$
	480751	${\tt GTTGCTGAAATGATTTATCAACTTTTAAGTAAAAATTAAAAGTTGCGAT}$
	480801	${\tt CATCTGTCAAGATAACTATTACAAGTCCTATAAAAATAAGCCATTATTAA}$
30	480851	${\tt AAAGAAAAACAATAAACTTTGATCATCCTGATGCTTTTGATTGA$
	480901	${\tt TTAAGATCACACATTGAAGATCTTCTAAACGGTAGTATAGTTAATGTTCC}$
	480951	${\tt TTTATATGACTACATTAACTATACCAGAGCTAAAAAAACAGCAAAAATTG}$
	481001	$\tt GTCCAATTGATGTTATTCTAGAGGGTTTAATGCCATGATTTGATGAA$
35	481051	${\tt AAATTATCAAGACTTTCTAAGCTAAAAATATTTATAGAAACAAATGGGGA}$
	481101	${\tt AGAACGTTTAATTAGAAGAATAGAAAGAGACTGACAAAGGGGAAGAAATA}$
	481151	${\tt TTGATTCTATTATAAACAGTGACGCGAAATAGTAGCACCAATGTATGAA}$
40	481201	${\tt ATATTTGTAGAAAAAATGAAGCGAAATGCTGATTTAATTCTGCCTTGAAG}$
	481251	${\tt TCAACGCAGAGAAGTAAGTACAAGTGTATTGGATGTCGCAATTGAACACT}$
	481301	${\tt TATTTCACAAAACTGTTGAAAAAAATAATTAGTTCTGGAAATTATAGAGA}$
	481351	${\tt TGTTTAAATTTCAAAGGTGAATTATGTTTATGCTCTGCTTTTGCTTTCAA}$
45	481401	${\tt ATCTAAAACAATTTTTGCTTTTCTGAACTAAGTATTAAATCACCTTTTA}$
	481451	${\tt AATATTGATCAAGTTCCTTATAAGTAATGCCCATCTCTGTCTCATCAGTT}$
	481501	${\tt TGCCCTTCAAAAAGACTAGCAGTTGGCGCTCTTGTGATTACAATTTCAGG}$
50	481551	${\tt AATATTAAAATGCTTAGCTAATTTGTAAACGTCCTCTTTTAAAAGCCATG}$
	481601	$\tt CTAAAGGAGCAATATCACAAGCTCCATCTCCTCATTTTGTGAAATAACCA$
	481651	${\tt AGTGTATACTCTACAAAATTACCAGTACCTAAAACTAAGAAGTTGTGTTT}$

5	481701	${\tt TTGAGCATAAGCATATAAAGTTATCATCCGTAAACGTGCTTTAATGTTAC}$
	481751	${\tt CAGCTGTTAAAAAATCTTTTTTTGGATCTATTCCAAGGGTTTTTACTAAC}$
	481801	${\tt AGATTGAAACTCTCTTCCAGTTCAATGTTAATACTATTAAATTGCATTTT}$
	481851	${\tt TTTAACAAGTTCACTAGTTGCTTGAAAATCAAGTTTTGAATTATTAATAT}$
	481901	${\tt GCATTATTAAAGCTAAATGGTTTTCAAAACCAAAAGTTTCTTTAGCAATA}$
10	481951	${\tt GCAGCAACAACTGCTGAATCAATTCCTCCAGATAAGCCAAAAATAACACC}$
	482001	${\tt TTTAGCTTTAGATTTTTTACATAATCAAACAGCCAGTTTTGGAGTTCTT}$
	482051	${\tt TTAAATATTAAATTAAATTAGTCATTAATTACAAATTCACAACCATCAAA}$
	482101	${\tt GAAAATAATATCACCTTTTTTAGCACCAACGGATTTTAATTGATCTTCAA}$
15	482151	${\tt TACCGATTTCTTAATTTTATTTCCTAAGCGACGAATGTTATCAAGCGTA}$
	482201	${\tt GTTTGTGGAATTTATCAAATCAATTATCTTAGACGTTTACAATTAACAAT}$
	482251	${\tt TCATCTGTTTAAACTATCTTTTTCAATATTTAAAGGGTCGTTATTATTTT}$
20	482301	${\tt CATTGGTATTTTGAAAAACATAATGCTTCTCAAGTTCCATTGGCAAACTA}$
	482351	${\tt AACTTATTAGCTCCAAATTGGGAAATTGTTTTTTTTTTAAAGTTCAAAAAC}$
	482401	${\tt TCTATCAAGTAAATTGCCTAATTCTTTCTTTAAAGCAGAAATTTTTAATA}$
	482451	${\tt CAGAAATAGATTTTTTTGAAGAAATTTTTCTAATTTTTTAAACCGTTTC}$
25	482501	${\tt TCACCTTCATTAACATCAATTTTATTAGCTACAACAAGCATCTTTTTTT}$
	482551	${\tt AACTAGAAGGGGAGAATATTTTGAAAGTTCATCCATTATTTGTAAATATG}$
	482601	$\tt CTTTGCAAGGATCATCATTATCTACAGGATCAAGTGAAATTAAATGAATT$
30	482651	${\tt AATATTTCACACCTCTCTATATGCCGTAAAAATCATGTCCTAACCCACT}$
	482701	${\tt TCCTTCACTAGCATTTTCAATCAAACCAGGAATATCAGCAAAAACTAAAC}$
	482751	${\tt TATTATTTTGATATTTAACTACACCAAGTACGGGTATTAAAGTAGTAAAG}$
	482801	${\tt CGATAGTTTGCAATTTTAGGTTTGGCATTTGAAAGTTTGGAGATTAGTGT}$
35	482851	${\tt TGATTTACCTGAATTTGGAAAACCAACAATTCCTACATTAGCTAAATATT}$
	482901	${\tt TAACTTCCAAACTAACGTTTAAAATCTCTCCTTTATCACCATTTTCATAT}$
	482951	${\tt AGATTAGGAGCACGCATAATTGGGCTTTTAAAAGCAGCATTTCCTTTTCC}$
40	483001	${\tt GCCTTTTCCGCCAAAACACAAAATAAAACTCTGTTTATCATGAACAAAAT}$
	483051	${\tt CCACCAATACACTATTATTTCTAAGTTTTTAACTGTTGCTATTGGC}$
	483101	${\tt ACTTTAATTAAAAGATCTGAACCATTTTTACCATGTGCTAAATCTGGTTT}$
	483151	${\tt ACCATTTTGTCCATCTTCTGCAAACAGGTGTTTTTTATTCTTCAAGaAAA}$
45	483201	${\tt AAAGTGAATCGCAGTTATGATCAGCTTGCAAAATAACATTACCACCATTA}$
	483251	${\tt CCACCATTACCACCACCAGGACCACCTTTATCATAATGTGCTTCTCTTTt}$
50	483301	${\tt TCATGCTATGATTCCATTACCACCATTTCCAGCAGTAAAGCGACACTCAC}$
	483351	${\tt AATAATCTGTAATAGCCATTATTTTGGTTTCTTTTTTTTT$
	483401	${\tt CGATTTCTGCAGATTTTTTTTTTTTTTTTTGAATTTGAATTTGTTGCAAC}$
	483451	${\tt TTTTGTCGATTTTAGTTTTAGATTTACCTGTCTTTAAGAGATTTTCAGC}$

5	483501	${\tt AATTATTATTGCATATTTTGATCTGATTAAAAAAAGTTAGTCATTTTAT}$
	483551	${\tt TCAAAAGAAAAAACTTAGCATTAATGTTATTAGAACTAAAAAAAA$
	483601	${\tt AGTAAGATAATTCAACTATTTCAAGCCATTGGTATTATTCCTGATAAAAA}$
	483651	${\tt AAGRACTATTAAAGTAAAAGCAGTAGAATAGCAAAAAGGAATTAATT$
	483701	${\tt AAATAATGTATTAGTAAAAGCAAATAAAAAAAGGCTAAAAAAAA$
10	483751	${\tt ATTAGTAAAGGAACAAATAAAAATCACAACAAAACTAAGTCAAAAATGGG}$
	483801	$\tt CTCTATTTCCTTACCCATAAATGTTCTGTTTTGTGCTGCAATTAAAAAAT$
	483851	${\tt TAAAGCCTAGTAAATTGATTTCACCAAAAAGAATTCAAATCAAAAGATAA}$
	483901	${\tt TAAATAAAAACTAAAAGAAACTAAAACTTCCTATTAGTCAATTAGGGGT$
15	483951	${\tt TTTAGTTTTTATTTGACTTGAAAAAAAAAATAATTCAAAACTAATAAATTTG}$
	484001	${\tt TGCAGTAATTTGAAATTTCACAAAGCGATCGTTTTCATAAAATTGATAAC}$
	484051	${\tt GAAGAAGACCCTTGATAACTCAAAGAATAACTGGTAATCCCAGGTTTTGA}$
20	484101	${\tt ATTTCTTTGCAGTTCTTATGATAAAAACTCTCGTTTGGCACTAAAAAACG}$
	484151	${\tt GCAATATCTCATTAATTCGTCTCTAGAAGCTACTAATAAAGCTTTTTGT}$
	484201	${\tt TTGCAATTACAAAACCGGTTTTAAAGCCTTTGAAAGTCTCATTTATTAAC}$
	484251	${\tt TTAATGATATGAAAATTACTACTTAACAAAATCATTTTTTCTTTAGCTAA}$
25	484301	${\tt GACAAAATCTTTGCAAAGCAAATTCAACTGTTCTAATAATGAATTGTTAT}$
	484351	${\tt TTTCTTTATCATCTTTAATATGAATCAGCAAATATTTAAAGGGCTGAATA}$
	484401	${\tt AATTGCGTTAAAACTTCCTTTAAAGTTTGAATTTGTTGTGAAGTTACCTT}$
30	484451	AAGCTTAAATTCACTTGCAAGGTTAACCTTTTTAAGATCAACTAAATTAA
-	484501	${\tt TTTGGTTTAAATTCAAGTTTTTATTAGAAACTTTAAAGTTTTCTTTATGA}$
	484551	${\tt GTTACTACTATTGTTTATCTTTGGTTAATTGAATATCAATTCAAATACC}$
	484601	${\tt ATCAAAATCAAAAACTTGGGCTGCTTGAAATGCTAATTTGGTGTTTTCTG}$
35	484651	GTGCAATAGAACTATAACCGCGATAAGCTATTAAAAACTGTTTTCGCATT
	484701	ACTATTTTTATCATTACTGCCAAAAACATCCTTAGCATCATCTGCTGAA
	484751	AATTGACTAAGTCATTCATCTGCGTCAATAGAGTCAATATCATAACCTTC
40	484801	AAGAGCAGGAATATCCTTAGTTATATCTTCATTTAAATTCTCAGTTTCCT
	484851	CAGACTGGAATACTAATCAGTTACCTTCACTATCAAATTCCCCATCATAT
	484901	CAGTTTCATTGTCTTCATAGTAACCATATTCTTCATTTCCGATTAA
	484951	TTTCTCTCAAAACTTAGGTGCCTCGTTAATTCGTGGTTGACGATTCTTTC
4 5	485001	ATTGTTCATCAACAAGAACTCAGTCTCCAGATTCATCATAGAAACCATAT
	485051	CAAATCCACTCACCTTTATTGTTGTACCTACCATAAACTTCATCACCAAT
	485101	AAGTGGTAAATAATCTCTTTCTCTAGCTCATTTAACAGTTGCATCCTTAT
50	485151	TTCATTTTTGATCATCACCAAAGAATCCTGCTCAAACTCATTCTCCATCA
30	485201	GGTTCATAATGACCATAACTATTGTTACCAACTAATAATTCTCAATCAA
	485251	TGATTCTTCTCACTAGCTTCTGGTTGAATTTCATCAGCTTGAGGTTCTT

	485301	CCAMINCIGITICAGGITTICGITCTTCAAAGTTAGGITGAACAACTACT
5	485351	${\tt TCAGGTTCACTAGAAACTTGAGGTTCTTGAATAGTTTCAACTGGTGAATCGGAATCGGAATCGGAATCGGAATCGGAATCGGAATCGGAATCGGAATCAATC$
	485401	AAATTTAGCTTCTTGAGGAGTTTGTTCAGGTTGAACAGTATCAAAAGTAG
	485451	${\tt CTTCTGGTTGAGATTCTACAGGTTGAATTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGTGAGTTGAGTTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAGTTGAACTTCTGTGAGTTGAACTTCTGTGAGTTGAACTTCTGTGAGTTGAACTTCTGTGAGTTGAACTTCTGTGAGTTGAACTTCTGAACTTCTAACTTCTGAACTTCTAACTTCTGAACTTCTAACTTTCTGAACTTCTAACTTCTTTTTTTT$
	485501	${\tt TCAAGGAGAGGTTCAGGTTGTGAATCTTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACCGATTCAACTGGTGAATCTGAACTGAACTAACT$
10	485551	AAATTTAGCTTCTGCAGATGGTTCAAAAACTGCTTCTCCAGGTTGTTGTT
	485601	${\tt CTACTTGAGGTTCAAATTGTGGCTCTGATGGTTTTGATTCAATTTCATAAATTGTGGCTCTGATGGTTTTGATTCAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAATTTCATAAAAATTTCATAAAAAA$
	485651	${\tt TTTGGTTCATCATAGTCATATTAGGTTCATCTACATCATATTGAGGTTCATCATCATATTGAGGTTCATCATCATCATCATCATCATCATCATCATCATCATCA$
	485701	${\tt TGATGGTTGTAGATCTGAATCATAACTAGGTTGATCAAAATCATAGTTAGGTTAGGTTGATCAAAATCATAGGTTA$
15	485751	${\tt GTTCATCAAAGTCATAATTAGGTTCATCAAAACTAGCTTCTGATTCAACAACTAGCTTCTGATTCAACAACTAGCTTCTGATTCAACAACTAGCTTCTGATTCAACAACTAGCTTCTGATTCAACAACAACTAGCTTCTGATTCAACAACAACAACAACAACAACAACAACAACAAAACAAAA$
	485801	${\tt TGTTGTTGAGTTGGTTCACTACTAAATTCAGGTTGTTCAACAGTTCAACAGTTAACAGTTTCAACAGTTCAACAGTTTCAACAGTTTCAACAGTTTCAACAGTTTCAACAGTTTCAACAGTTTCAACAGTTTC$
	485851	${\tt TGGTGAATCAAATTTAGCTTCTTGAGGAGTTTGTTCAGGTTGAACAGTATGGGGGGGG$
20	485901	${\tt CAAAGGTAGCTTCTGGTTGAGATTCTACAGGTTGAATTTCTGGTTGAGTTGAGTTGAGTTGAGGGTTGAGGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGGTTGAGGTTGAGGTTGAGGTTGAGGGTTGAGGTTGAGGTTGAGGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTGAGGTTG$
	485951	${\tt TGAACTTCTTCAAGGACAGGTTCAGGTTGTGAATCTTGAACCGATTCAACCACACCACCACCACCACCACCACCACCACCACC$
	486001	TGGTGAATCAAATTTAGCTTCTGCAGATGGTTCAAAAACTGCTTCTCCAG
	486051	${\tt GTTGTTGTTCTACTTGAGGTTCAGAAATAACTTTTTGTTGATTTTCAACACACAC$
25	486101	${\tt TCATCAAACTTAACTTCAGTAGTTTTTTCAGGTTGAACATCAAAAACTGCCCCCCCC$
	486151	${\tt TTCAGGTTCTCCAACAGTATCAGTAGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTGAGGTTGTTTGATCAACTACTTCAGCTTTCAGCTTTCAGCTTGAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTTCAGGTTGTTGATCAACTACTACTACTACTACTACTACTACTACTACTACT$
	486201	${\tt CACTAGAAACTTGAGGTTCTTCCAATCCCTCAGTTTGAGTTTGATTTTTAGGTTTGAGTTTTTTTAGGTTTGAGTTTTTT$
20	486251	${\tt TCAAAAACTGCTTCATGTTTAACAGTATCAAAGCTAGCTTCAGTTATTAACAGTATCAAAAGCTAGCT$
30	486301	${\tt TTGATCAACTGGTTCAGATTTAGGTTCCTCTTCTAATATTTTTCAGTCTCTCTC$
	486351	GTGTTTCTAATTGAGGTTTTTCAAAAACTGCTTCTGATTCAGCTTCAGAT
	486401	ACATTATCAAAAGTAGCTTCAGATTTTAATTCTTCTGTTGATAATGGTTC
35	486451	AGAGGAGGTTTCCTGTTGAAGTTCTTTAGTTTCATCAAAAGTAATTTCAG
	486501	$\tt CTTCTGTTTCTTTAGGTTGAACTTCATTATTTTCAACATTATCAAAGTTATCAAAGTTATCAAAGTTATCAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAGTTATCAAAAAAGTTATCAAAAAAGTTATCAAAAAAGTTATCAAAAAAAGTTATCAAAAAAAGTTATCAAAAAAAA$
	486551	GCTTCCTCTAGTTTTAAATCTTCTAACTTAGTTCCATCAAAGATTTGTTC
4 0	486601	AACTTCAGCAGTAACAATTTCTGGATGATTTTGATCTAATGCAGGTTCAG
40	486651	ATGGTTGATCTTCAGAGCTAGGTTCTAATTGGGTTTCAATTGTTTCTGGT
	486701	TCAAAAGCAGTAACTTCAGTAGGTGTAACAACTGTTTCTTCAGACTGATT
	486751	TTCTAATTGTTGATGATCAAAAACTGCTTCAGTTTTTCTTCTAATTTAA
4 5	486801	TTTCATCAGAGATTTGTTCAGCATGAAATTCAGCTTGCGATGATTCTTGC
	486851	GGAATTTCGACTGGTGAATCAAATTTAGCTTCTTGAGGAGTTTGTTCAG
	486901	TTGAACATCTGGTTGAAAATGATCATCAAAAACAACTTCAGTAGTAGCTT
50	486951	CAGGCTGTAGTTCTTGAGTTTTAATTTCATCAAAAACTGCTTCTGGTTGA
	487001	ACAGTATCAAAAGTAGCTTCAACTTGTGATGATTCTTGAGGAACTTCAAC
	487051	${\tt AGTTGAATCTAATTTAATTtCTTTGAAAGTAGGTTGGAGTTCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAAAGTAGGTTGGAGTTCTGAATCACCTGAATCACCTGAATCACCTGAATCACCTGAAACTAGGTTGGAGTTCTGAATCACCTACCT$

	487101	${\tt AACTCTCTTTTCGTCTGGTTTTGAATCAAATAAAGCATTTGATTCAATG}$
5	487151	${\tt ATTTCAGTTAAATCAAGCGGTAGAGGAGTGAATAAGTTATTTTCATCTTG}$
	487201	${\tt ATGTTCAAATAATTTTGTTTCTTGTTCAACTGTGGGTACATTTGATTCAG}$
	487251	${\tt AAGTCTCAACCTCTTGAGTTTGACTAATGAATTCAAGCGTATCTTTTTGT}$
	487301	${\tt TCAGATGAAAATTCATTAGGAGTTTCAGCACTTTCAGTGAAACTGTCTTC}$
10	487351	${\tt AACTATTTGATATGTTGGTAATACGAACTCACTATCAGTTTCTAGTTGTG}$
	487401	${\tt TTGTTGGTTGTTCTTGAACTTCTTTTTCAGAAACATCTAAATTAATAAAT}$
	487451	${\tt TCATTACCAATTTCTTCATGATTTAATTCAACAGATGTAGTTTTAGTTTC}$
	487501	${\tt TAATGATTTATCAACATCATTTACAGAATCTAATTCAAGTGATAGGTCAG}$
15	487551	${\tt GTTGAATGAAAGGTGGTTCACTTTCTACAACTATTGTTGTTTTTTCATCA}$
	487601	${\tt AATAATGATTTTGGTTCAGTTTCAAGGAAATCTACTTTATATTCCAATCC}$
	487651	${\tt TTCTTGAGGTTTTGGATCATTATTAATAAAAGTTATTTCATCAACTAGTT}$
20	487701	${\tt CACTTTTGGGAAGTTCACTTGAAAACCTTAACTTCTGTTTGAAAAA}$
	487751	${\tt GGAGCATTAACATCAACATATTCATTTGTTAAGAGTACCTCATTAACAAG}$
	487801	${\tt TTTTCACTAAATAAAGCAGTTAAATCAGTATTAACACTTTCATCACTGT}$
	487851	${\tt TTGTTTCTTTTATCTTTTCATCTGAAACAACAGGTTCGCTAAATTCTTGT}$
25	487901	${\tt TGAAATTCATTAACAGAATAAGTAGGTTCAAATTGTTGTTCTGAAACTGT}$
	487951	${\tt TTCATTTATTTGAGAATCAATATTATTAACAACTTCATCTCTAAAAAGGG}$
	488001	${\tt ATTCATTAATGAAATCATTATTAGCATCTAAAATAATTTCATCTACTTGT}$
30	488051	${\tt GATTTTCTTCTACACTTTTTTGTGTTTCATCAGTAAAAGAACCGAATTC}$
	488101	${\tt TTTTCAAACTGAATCAATATCATCAGAAAATATTAGATAAATCTGCTTTAG$
	488151	${\tt CACTATCTTTATTTCTTTAGAATAATCTTGACTTAAATGTTCAACATGT}$
	488201	${\tt TTAGCAATTTCATGTTGTTGGTCGTCTTTAATAATAGAATCTAAGCC}$
35	488251	${\tt TTTAAGATCATCTTCGTAAACAAAAACGGTCTCAACTTCTGGAACATTTC}$
	488301	$\tt CTGCTTGAGTTTGATTGGAATCTAAGCCCCTTAAGATCATCTTCGTAAACA$
	488351	${\tt AAAACAGTCTCAACTTCTGGAATAGTAGTTTCAGGTTCACAAGCTGCTTC}$
40	488401	${\tt AGGTTCAACTTCAACGGAGCCTCAACTTCAGATTCAACCTTAACTTCCT}$
	488451	$\tt CTTTAACGATTTCAATTAAAGGGATGGTTTCATTAGTTTCTTTAACTGGA$
	488501	${\tt TTTAAGAATTCAAATTTTCTTTTTCAAAATGTAATTTAGTTACTGGATT}$
	488551	${\tt ACGGAAGATAACTTCATTTCTTCTTGGTTTAACTTCTTCAATTACCGGCT}$
45	488601	${\tt GCTCTTCACTTGAATTTTCAAGTAATAGTTCGTTTTCTAGAGAAGAAGCT}$
	488651	AAGCTCTTGGTATTAAATACTGTAACAACAATGTCATTTTCCTGTTCTCA
	488701	${\tt GTATGGTTGTTCAGAAATAGTCTTTTTCTCTATTTCATCAACTAAGCTAT}$
50	488751	${\tt CAGTATGACCAAGTGCTTCTTCAGTAAAGCGAACAGGATCAGGGATCCAA}$
	488801	${\tt TTTAGTTTCTTGTCAAAAAATCCTTTTCAGATCCATGTATTATTTTGAAC}$
	488851	${\tt AAAACCATAGTTAGGGTTGCCTACAAGTGGTCTTCAAAAATCAATATCAG}$

	488901	$\tt CTGGTCTTTGTTTAATGAAAGCTGCATGTTCTTGAGGAACTTCAACTGTT$
5	488951	${\tt TCAATTACCTTAAAGTAGTTTCATCTTTGTAATTGGTCAAAATAACCTAG}$
	489001	${\tt TCAAACTCAAGTATGATTTTTTCAAAAACCATATTTTCTATCACCAACAA}$
	489051	${\tt AGATATATCAGAACGCTTGTGAATCTTCTGGATTTAATTTTTTTCTCTA}$
	489101	${\tt ATAGTTGTTGTAAAACTATCTTTTTTTTTTTCTAGAACTTTGGTTTCTGG}$
10	489151	${\tt TTGATTGTTTAATTCAACCAACTTATTTTCATTAATGGTTGGATAACTGC}$
	489201	${\tt TTGTTTGATTTGGAACTGTATTAACAACAGTTTTTTGATTAAGTTCTCTT}$
	489251	${\tt CTACTTAAGATATCTGTTTCAGGTGGAACAATAAAAACACCGCGCTTGGT}$
	489301	${\tt TTCATCAAAAAAATCTATAGGTGATTTGCTCTTTGATTTAACTGTTTCCT}$
15	489351	${\tt TTTTCTTACTATTAAAAGACTTTGTTTTCTTGAGAATGTTTTTTTGATT}$
	489401	${\tt TCACCTAAAAAAGGTTGATCAAAAAGATTTTCAACTTTATCTTGTTCTTT}$
	489451	${\tt TTTTGGTTTAGTAACACTCTTCTTGTTAGCTGATTCTAAATACTTTTTGG}$
20	489501	${\tt TTTTGATTTAGGGGTGGTGTTTTTGTTTTTATTCTTTGTTGTTTTTGGC}$
	489551	${\tt ATTAATAAAAATACTTAGCACTAGTGACTAAAGTTATCTGACTCACTAAA}$
	489601	${\tt TTGTAATTTTAATATCAAGATAACAAAAGTTAGCTATATATGCTAAAAA}$
	489651	${\tt ATAAATAGATTTAATTACTATTTATTTAATTTAATGTAGATTTA}$
25	489701	${\tt ATAGTGTTTCAGCTTCTTTTTGCAAAAGAAAATAGTTATAAAATCAAAA}$
	489751	${\tt ATTAATCACTTTAATTTCAAAAAAATTTGACAGCTAAAGCTTTACATTTT}$
	489801	${\tt ATTAACAACAGAACAAATAATTTTTAGCTTTTAAAAAATTTATTT$
30	489851	${\tt AAAACTATAAACAGGCAATTTTTGTTTTTCTGTTTTTACAAAAATATCAA}$
	489901	${\tt TAAAAATATCACAGTCAAAATGATTTAATAGTTTTTTGCGAGTTGCTATC}$
	489951	${\tt CCAATTGCTTTGATCATTTCTGCATTTTTTCCAATGATAATCTTTTTTTG}$
	490001	${\tt GCTTAATTTGGAACACTAATTACTAGGTGAATTTTTAACAAGTTTTTTT}$
35	490051	${\tt CTTTATTGAAACTCTTTTCAATAATTTCAATTCTTGCTATATGGGGAATT}$
	490101	${\tt TCGTTTTTGCAATAAAAATTATTTGTTCACGTAATCCTTCAAGAATCTT}$
	490151	${\tt AAAGTCATCGTTGTTTGCATCAATAAAATTGATATCTTTACGAAAGATAT}$
40	490201	${\tt TATACCTAAGTTCAACTTGTTTAAAAATTGATCAAAAGAGGTTTTTATCA}$
•••	490251	${\tt AACTTAAGCAAGTTTATTTCAATTGTTTTTTTGTGGTTTAAACTCTTCTAA}$
	490301	${\tt AATAATTGCTTTATTAACTTCACTTAAACTTTTTTGATGAAATTTATTAA}$
	490351	${\tt TTAAAAAATTCTTGTTAAATTTTGATAGCGCTTTAATTGTTGTAATTGA}$
4 5	490401	${\tt GTTTTTAAAAATTCTATCTTGTTATTCTGATCACTTCTAACAACTAAAAG}$
	490451	${\tt TAATACATCAATTCCACTTAATGCTTTGCGAATTTCTTTAGTTATTAATT}$
	490501	${\tt CATAATTTGAATGTTTTTTCTCAGTAAAACCAGGGACATCAATAAAAACA}$
50	490551	${\tt ATATTTTATTAGCTTGGTTAATTACCTCAGTGGAAATAGAAAGAA$
	490601	${\tt TGTGTTATTCATGGATGATACCATCAGACTATCATCGTTATGTAAAAAAT}$
	490651	${\tt TAATTAGCGTTGATTTTCCTGCATTAGTAGGTCCTAAAACACCAACTTTT}$

	490701	AAAACTTTCATACTGATAAGATCTCTTCATGAATTGCATCTTGAAAAAAC
5	490751	ATAGTAACGCTTTCAAATGCTTCACTTTCTTCATGATTAAATTCAAAGAG
	490801	GTGTAAAATGCCGTGTATTAAGCATCTAGTTAAAAGAAATCAATTGTTAC
	490851	${\tt AACCAATCTCTTTAGCTTTTTTAAAGATGTATTTAGGACACAAAAAATT}$
	490901	${\tt TCGCCGATTGCTAGTGAAAAACCGGTTTCAGTTTCGTTATAGCACAAACT}$
10	490951	${\tt AATTACATCAGTACAACCTCTACGTTTTAAAAACTGTTTGTT$
	491001	${\tt TCATTTTGAACAGGAAACAATTAAAAGCGCAAATTCTGGGTCAAACGAT}$
	491051	${\tt AGGTTTAAACTGCTTTTAATAATTTGGAAACAAAGTTCGACTCCTGCTTG}$
	491101	$\tt GTAATTTTACCAAAAAAGCGCTTAAAAAGGCGGCTTGAATTAATGCTAA$
15	491151	${\tt AAGATGACTTCAAACAAATCTTTTGATGGTAACATGATAGTAATATTATA}$
	491201	${\tt TCAGCCCTGTTCTAGAGTAACACTTAAATCTACCTTTACTAGATTTTTGT}$
	491251	${\tt TCAATTCTGATGAAATTTCTGATGTAGAAATTTTCTTTTTGTAAAGTCTA}$
20	491301	${\tt AAAGCTTTTTTGCTGATTTTTCTGTTGTTTCTGCTTGAAAATTAGTCCA}$
	491351	${\tt TGAAACGTTGTTAAAAAGATTTTCATCTTTTTCATTTTTAAACATTAAAA}$
	491401	${\tt AATTTTGTTGCGTAGTTCAAAGATTTACATTAAGATATTGTTTTACC}$
	491451	${\tt TTTACTGAAAACAAGATAGCAACTGTTGTTAAAAGCAAAATAATAAAAGC}$
25	491501	${\tt AATTGTTATTCCTAAAATTTTCTGCTTCATAATTTAACTATTTCTTAAGT}$
	491551	${\tt AATTAGTTAGGTTAATCTTGTTTTGAGCTTCACTTGCAAAACTCAGATCA}$
	491601	${\tt TGCTCAACTAAGACTACAAAATTATTTAAAGTAAGTGGTTTTACTAATAG}$
30	491651	$\tt CTGATAAACACGGTTTTTAATTTCAGGTGCTATTGCATTCATGCATTCAT$
	491701	${\tt CAAGTAAGATCACCTTATTCTTAATGTTGCTAAGTAAGAATAGTTGTAAA}$
	491751	${\tt ATTTGTTTTTGTCCTGAACTTAACTTTGTTTGAACACCTGCATC}$
	491801	${\tt AAAAAGTAACTGATATGTGGATTCTGATTATTAAATAAAGCCTCAC}$
35	491851	${\tt TAAAGCCAAAATCATTTGCTTCTGTTTGCATTAAATTTTGACCCTTTAGA}$
	491901	${\tt TAATAAACGTTTTCAAAAAGCTGTTCTTTTGAACATCTTTTTAAATCGAC}$
	491951	${\tt GTTATTAAATTTAATATTGCCCGTATATTCAAAACCTCTACCAGTTAATA}$
40	492001	${\tt TTTTTAAAAAAGTAGATTTACCACTACCATTTTGTCCAAAAATAACTGTT}$
-	492051	${\tt TCATTTTGATTTTAAACTAAGGTTAGCTAAATCAACGTGTTGATTAAG}$
	492101	${\tt TGTAACTGATAAATTTCTAGACTAATTTCATCAGGACACTGTCAATTTA}$
	492151	$\tt CTTTAATACCCTCATCCTTTTTGGTTTCTATAAACAAGTTAACTAATTTC$
4 5	492201	TCACGACAATAGTGATAAATGTTTATTGCAGCACCAAATTGAACAATTCT
	492251	TGTAGCATAAGTTGAAAAAGTGATTGGATACCAAAAACATAGAATAAAA
	492301	AGCTCAATTGATAACGCTGTTCAATAATACCAATCACCCCCAAACCTAAT
50	492351	ATAGCAAAATCAAAACCTTGTTGGAAGAAGCTTTTAATGTTTTCTATAGT
30	492401	TAGACGATTAATTTCCTTCTGGTTGTTAATGTTTTGATTTTGTAAAAGTG
	492451	CTTTACGAAAATTCAACATTAAGAAATTAAAGCGCTTTTTATTTTGTTCT

	492501	${\tt TCACGCAAATTTCATCTAGCTGTAAACTAATTTTGTTTTGCAATTCAAC}$
5	492551	${\tt ATAAGGAATTTCCTTCTTTGTAATTTTTTTAGTAAAAAAGAAGTCATAAC}$
	492601	${\tt AAAATAAGCCAGCATTGACTACTATTTGTGCAATGGCAATCAAT$
	492651	${\tt TCTAATTGATTAATTCCTATTAAAACACCGATAATTAGTGCAACAACACA}$
	492701	${\tt ACTAATAATTAAATTGGGAATATAAAAGGTTAAAAAAGGAAAGAACTTCTT}$
10	492751	${\tt TTAAATAAAATTGTCGTTCTATTAATTGATTTGGTGATTTATTACTAAAG}$
	492801	${\tt TAAACAAAGCTTTTTTGTTGCAAACTTTGAATAATTCAACCCAAATATCC}$
	492851	${\tt ACGGTATTGTTTTCAAAATAAAAAATTCCTAATTAGTTGCAAAATAACTT}$
	492901	${\tt GCAAAAGCAAGTTTAATCCCTTTAGACATGAAAAATAAACTACCAAAACA}$
15	492951	${\tt ACTAAATTAACTGCAGTTCCAAAATCAACAGTATTAGTTATTATGGTACG}$
	493001	$\tt CGATGCTGTTGCTAATAATGTAGAGATACCAATAATAATCAGTTCAATAA$
	493051	${\tt AAACATAAAAAGTGACTAAATTAAAATCAAAAAAGTTACTGAAAAAATTA}$
20	493101	${\tt CTTTTATTTACTGGTGGAATCTCTTTAAATGCTTTTGCAACAGTTGCTGC}$
	493151	${\tt ATAACCCGTTCAGAGTTTTTCTAGCTTTTCATCAGTTAAAAGGTATTTtC}$
	493201	$\tt CTTTTGCAGGATCATATACCTCTCAACTATTTTCATGTTTTTTAACT$
	493251	${\tt ATGACAAAGTGATCTTTAAAATGAACTATTATGAATTTGCTATCAAGTTC}$
25	493301	${\tt TTTTAGTTCTTGAAATGTTAATTGATAACTGTTGATTTCAAGACCAAACT}$
	493351	${\tt TTTTGCCATAACTTTCCATTTCAAATAAGCTTAAGCCATTTGGTGGTAAG}$
	493401	${\tt TTAATTTGTTCTAGTAATTCATCATGAACATACTTTTCATCATGGATTGC}$
30	493451	${\tt ATTGGCAAGCATACCAATTACGCAAATTCCACACTCATTCTGTTGTTCTT}$
	493501	${\tt GATAAATGATTTTCATCGCCTTTGTTTTTGTCTTATTAATAGCAATGAAAA}$
	493551	$\tt GTGAAAATGACAAATTTGTAAGCTGTTACAAACACTACAAACTGTTTTA$
	493601	${\tt TTAGTTAAAAATAAAGTTACTTATTATTTTGCAAGCTGACTAGCACG}$
35	493651	${\tt TTCGTACAAGGTTCTCACTAAAACACCTTGTCCAAGGTTCTCAATGGAAG}$
	493701	${\tt CAGTTGATGCAATATCACAATGGATCAAAGATACACCTTCTCTAAATTCT}$
	493751	${\tt GCAAGGAAACAAGCTGCTCTTGAAGALCCAGCACCTCTTGCACTAGTAGA}$
4 0	493801	${\tt ATTTTGCAAATCAGCAAGTTTTGTTAGCTGTAAAGGTTTTAAATAATCAG}$
70	493851	${\tt GGTGCATAGGTAATCTTCATACAGGTTCACCTGCACTACATGCTGCTTTT}$
	493901	${\tt TTAAAAGATTCTCACTGGTGATCACAAGTACTGAAAATACCTGTATAGGT}$
	493951	${\tt AGTACTCAATATGTATGACATTAAACCAGTAAGGGTTGCTACATCAATAA}$
4 5	494001	${\tt TATGTGTAGCAGCTAAATCCTTAGCAGCATATGTAATAGCATCAGCTAAA}$
	494051	ACCAATCTTCCTTCAGCATCAGTGTTATCTATTTCAACACTTTTACCATT
	494101	GTATGCTATCTTAATGTCATCAGGACGTTGCGCCTTAGCACCAGGAAGAT
50	494151	${\tt TTTCAGTAAGAGCTGCTACTGCAACAACATTGGTTTTAACCTTGTTTTTA}$
50	494201	${\tt GCTAATGCCAAAACAGTAGAACATACTATAGCCGCACCACTCATGTCATA}$
	494251	${\tt TTTCATGCCACGCATATAATCACCTGTTTTAATGTTCATTCCGCCTGAAT}$

	494301	CATAAGTAATTCCTTTCCCTACAAAAGCAAGTTTTTCTTTGGAATTTTTA
	494351	${\tt TTAGCTTGATAACTAATAACAAGTAAACGTGCTTCTCTTTCAGAGCCTTG}$
	494401	${\tt ATTAACCCCTAAAAGTAAACCCATTTTTTTTTTTAATTAGATCTGATTGTT}$
	494451	${\tt TAAGAACTTTATTTTACAGGCAATTTACTTGCAGCCTTTTCAAAATGT}$
	494501	TTAACAAATACTTCTGAATAAAGTAGATCTGAAGGAGTGTCTTGTAATTC
0	494551	TCTTGCTAGGTTAACATATTCGCCTACTGTTTCATATTCTTTAACTAAGT
	494601	TGTGATATTCAACAGCACATTGAACAGCAACTTCAACATTTTTTCAGGT
	494651	TTGGTTTTCATTGTGAAAGGAGTAGTTTCACAAAAAGTAACACTTGTAAT
	494701	AACAGTTTTTATCGCAGTATGAAAACAACCACTATTTTCATTTTCTTAT
5	494751	${\tt AAAGTTCTATAAGACTGTCAAGATTAATGTTTAATTTGGTTTTCTT}$
	494801	TTAAGAAATTGAACTAAAGCACGGTTGAAAGCAGGAAAATCAGTTGGTAA
	494851	${\tt AACAACACCAAATTCAACATTAGGATTATGTGCAGCTTCTTTTTACAC}$
20	494901	CATATGTTTTTGAACTCACAAAAACAACTGTGTTGCTATCATCACTAAAA
	494951	${\tt GGTTTATTTATTCTCATTCTATATCTCTATTTATTATTCTGAAAAGGAGT}$
	495001	${\tt TATCTTTTCTCTCTTTAACATCATACACAGCAACATTAGTAGTAATTAAT$
	495051	${\tt GAACTAGCTACAGAAGCAGCTTTTTCAAGTGCAGTTTTAGTTACTTTGGT}$
25	495101	${\tt GGGATCAATGATTCCATTTGCAATCATCTAACCTTCTTTTTAGTCTCAG}$
	495151	${\tt CATCAAAGCCAACACCAGTTTTTTCATTTTCAATTCACTGAGAATTTTA}$
	495201	${\tt ACTGGGTCAACTCCTGAGTTTTGAATAATTTGACGCGCTGGTGCTTCTAG}$
30	495251	${\tt AGACTTTTGCACAATTTCAAAACCAAGTAGGATTTCTTTAATGTTTTCAA}$
	495301	${\tt CACTAGTTTCATTTCATATCGTTCTTTTAGTTTACTGTTAGTTA$
	495351	${\tt CAAGAAGCATTTAATAAACCAACCACCTCCAGCGATAATCCCTTCTTC}$
	495401	${\tt AACTGCAGCTTTGGTGGAATTTAAAGCGTCTTCGATTCTGAGTTTTAATT}$
95	495451	$\tt CTTTTTGTGCGAGTTCAGTTGCACCACCAACACGGATAACAGCAACACCT$
	495501	${\tt TGACTTAAATAAGCAATTCTTTCTTTAATTAAATCAGAATCATACTTGTC}$
	495551	${\tt AGTGGTTTGTTTTAATCTTCCGTTTAGAAGTTCAACATGCTTTTTGATTT}$
10	495601	${\tt TATCCTTATTGCCTTTACCACCAATAACAGTAGTTTTTcCTTTAGCTATT}$
	495651	${\tt TGAACCTTTCTAGCATCACCTAAATTATCAACAGTAACATCTTTAAAACC}$
	495701	${\tt ACTATTAATTTCGGTATTATATGCTAAGGTTCCACTACTAATTGCTAAAT}$
15	495751	$\tt CTTCTAAAGCTGCTTTTTGACGTTCACCATATTCATTACATTTAACAGCA$
	495801	${\tt ACAACATTAATGGTGCCCCTGAGTTTATTAACTGCTAAAGTAGTAACAAC}$
	495851	${\tt TTCTTCTGCAAAGTCAGGTGCAACAATTAATAATGGATTACCATTTTCAA}$
50	495901	${\tt CACTACCTTCTAAAAGCGGAAGAATTTCTTTAATTGTGTTAATTTTTAAA}$
	495951	${\tt GAGCTTACTAAGATTTTAGGTTGTTCTAAAACAACTTCCATTTTTCTTG}$
	496001	${\tt ATCACTAACCATATAAGGTGATGCATATGTTCCTT}$
	496051	${\tt CAGTGGTTTCTAATGTTGTATTAATGGTTTTTGCATCAGTTGTTATC}$

	496101	${\tt ACGCCATTTTTACCAACTAAAGCCATTGCTTGAGCGATCAGTTTACCAAT}$
5	496151	${\tt TTCTTTAGAACCTGAAGAGATAGCTGCAACTTGTTCTATCTCTTAG}$
	496201	${\tt TATTAATTTTTTAGAGTACTTTTCAAGTTCTTTAATAATAAGTAAG$
	496251	${\tt GCATCTTCAATACCCCTGCGGATGTTAACAGGATTAGCACCTTTATTGAT}$
	496301	${\tt AATTTCAATACCACGGTTTGTCATTTCTTGTGCTAATATGGTAGCTGTTG}$
10	496351	${\tt TTGTACCATCCCCAGCAATGTCATTAGTTGACACTGCAGCAACTGAAATA}$
	496401	${\tt ACCTTAGCACCAATATTTTCAACTGGATCACTAAGTTCTATTTCTTTTGC}$
	496451	${\tt GATTGTAACCCCATCGTTAGTAATTAATGGGTTTGCAAATTTTCTCTCTA}$
	496501	${\tt AAATAACATTTTGGCCTTTAGGACCTACTGTTACTTTAACAGCATTTGCT}$
15	496551	${\tt ATCTTATTAATACCCTGCAACAAGCGGGTTCTCGCATCTTTACCAAAGAT}$
	496601	${\tt TAATTCCTTTGCCATAATTGTTTAATTTTATCTTTTGTTTG$
	496651	${\tt TTTCTGGTTTTCAAAGGCAAGTACATCCTCAAATCCAATAATTTTGTAC}$
20	496701	${\tt TTGTTTCCCTCATTCTCAAAAGAGATACCACTATACTCCTTAAAGTAAAT}$
	496751	${\tt AATATCACCAACACCAAAAGCATATTTTGGTTTTTGTTTTTGCCATATG}$
	496801	${\tt CAGGACCAGCACCAAGAGCAATTACAATCCCTTTATTAGCATTAGCATCG}$
	496851	$\tt CTTTTATCATTACTTGCCAATGAGGTAATAATCCCTTTTTTTGAGACTTC$
25	496901	${\tt TTCTTTGTTTGATTCCACAAGTGAAACCAAGACGTTGTCATGAATTGGCG}$
	496951	${\tt TTATGTTCATAATAAAAATATTTTAATAATTAAAAACTAATTTAAAAGAA}$
	497001	${\tt AGTAAAAGTTATCTTAAATTTATCTGATATTAGCGCTAAACATTAATTA$
30	497051	${\tt TATTTAGTGAGATATTGTTAATTTTTAAATACAAATTAATAAGCTAAACC}$
50	497101	${\tt CTTATAGAGCGGAAAGCGTTTTAAGAGAGTTTAAAACAGCTGTTTTTGTTT}$
	497151	${\tt GACTAATTACCTTTTGATTACCATTACTTTTAATAACCTTATCAATCA$
	497201	$\tt CTGGCAACAAAAATAAAGTCATTAGTTTTAAAACCTCTGGTTGTCATTGC$
35	497251	${\tt AGGAGTTCCAAGTCTAATACCTGAAGGACTAAAAGCAGATTTTGTTTCAA}$
	497301	${\tt AAGGGATTGTATTCATATTCATATCATATGTTAGCTTTTTGTTAGCCACAAC}$
	497351	${\tt GCAACATCTTTACCATTACCAACCACTAATGAAAATAAGTGGGTTTCAGT}$
4 0	497401	${\tt ACCTTTTGACACACACGATAACCCTGCTTTAAAAATCAATTTGCCATTG}$
40	497451	$\tt CTAAAGCATTATCTTTAACTTGTTGCATATACTGCTTAAACTTTGGATTC$
	497501	${\tt AAAGCTTCTTTAAAACAAACATATTTAGCTGCTATCACATGTTGTAAAGG}$
	497551	${\tt TCCACCCTGACATCCAGGAAATACTCCACTATCAAGCTTTTTGATAATTG}$
4 5	497601	${\tt CTTGGTTGTTAGACATAATGATACCCCCCCTAGGACCACGCAAAGTTTTA}$
	497651	${\tt TGAGTTGTTGAAGTGACAACATCCACAAAAGGCAAAGGGTTTTGGTGCAA}$
	497701	ACCTGCAGCGATGAAACCAGCAATATGGGCAATATCAGCTAAAAGATACG
50	497751	${\tt CATTAACTTGTTTTGCAATTGCACTAAATTTTTTAAAGTCAACAGTCCTA}$
50	497801	GAATAGTTAGAAAAACCACAAATAATTAACTTTGGTTTGTGTTCGAGAGC
	497851	AATTTGAAGAATTGCATCATAATCAAGAGTTTCTGTTTCAAAATCTAACG

5	497901	${\tt AATAAGTTACTGCTTGATATTGCTTACCTGAAAAATTAACGGGGCTACCA}$
	497951	$\tt TGGGTTAAATGACCACCACAATTAAGATCTAATCCTAAGATAGTATCTCC$
	498001	${\tt TGGTTTTAACAATGCTAAGTAAACTGCATAGTTAGCAGATGATCCAGAAT}$
	498051	${\tt GAGGTTGGACATTAGCCCATTGTGCTCCAAATAAAGTTTTGCAACTTTCA}$
	498101	${\tt ATGGCTAAGTTTTCAGATTCATCAACAACTTCACAGCCTTGATAAAAACG}$
10	498151	${\tt TTTACTGGGATAGCCTTCTGCATATTTATTTGTTAATACTGAACCAGTTA}$
	498201	${\tt CAGCTAATATGTCTTGGCTAACGTAATTTTCTGAAGCAATTAAACAAATG}$
	498251	${\tt TTTTCTCTTTGACGTTGTAACTCTTTATTAAGTAAAAGTCTTACCTTTGA}$
	498301	${\tt AAACATTCAACTTAATTAACGTAATAAAAACGGTGTTTTTTGATTGTTCT}$
15	498351	${\tt TATCAACATATTTAAATTCTTCCTTTTCACTACTTTTAATTTGGTCGTAC}$
	498401	${\tt AAGTGGGTATTGTGCTTTTTAGCAAATTGTGCATAGAAAGATTTTGTGTT}$
	498451	${\tt ACTGTCACCAAAAATTAAATCATAGTGCTGAAATTTATCCCTATTATTAG}$
20	498501	${\tt TAGTTCTGGTTTTATTTTTTCACTTTCACGTTTAGAAGTTCTTAAAAGT}$
	498551	${\tt TGAGACATACCAATGTTATCTTTATGTGTTTTTGGAATTCTTATATACCTC}$
	498601	${\tt TAAAACACCAAAATAAATACTGTTAATTTTTTGGTTGTTAAATATAG}$
	498651	${\tt CACTTCCAGAAGAACCACCAGGGAGATTGGTATCATCAAGCATTAAACCA}$
25	498701	${\tt TATCCATACTGTTGGTACTCTTTGTCATGATATTTAAGTTTAAAGTTTTT}$
	498751	${\tt GAAGTTTTGAAATGTAACAATCCCTTTTTCGTGTTTAATAACTTTATCAA}$
	498801	${\tt CATGACTGTCTTGGGTTTTTTTGGAAAATATTTCACTACCTATTTGACCA}$
30	498851	${\tt TCTTTTCTGGCATTTTTGTAATTACAGGGATCTCTTTAGCAGTTGAAAC}$
	498901	${\tt TAAATATGTGTTTTTACTCCATAACTGACTTTTTTGATTAAAGTTATGAG}$
	498951	${\tt TTCTAGCAAACTCTTCTTTTTGTTCTAATAAGCGGTTTTGATCATAACCT}$
	499001	${\tt CTTTCAAGTACAGGATAACCCAAAAGATAGTGGCTATGGTTTCAATGTTG}$
35	499051	${\tt TTCTAAATCTTTGGTTTCAAATATATTAGTGCTATCACCCAAACTTTTAT}$
	499101	${\tt AAGTATTAATTGCTGGCTTAATGAATTCATTGAAGATTTGTCAATCACGA}$
	499151	${\tt AGATTTCTAAATTAAGTTCCAGTTCTATAACAGCAAAGTCTGCATAAAC}$
40	499201	${\tt AGGCTTAATACTGTTAACACCTTTCAAGAAATTAGTTGCGGTATACGCAG}$
	499251	${\tt TTTTAGGAATATTTGATGTTTGAATAGAAAGCAGTGAATCATTTACCTTT}$
	499301	${\tt CTTTGTTCTAATTTTCTTCTTGATAGAGTTTTGTAATATCTGTTTTGTT}$
	499351	${\tt AGTGTATTTACCAATTGAAAAATAAACAGTTGATTCATATTCATTAAACT}$
4 5	499401	${\tt CCCTTTGATCATCTGTTTTGCTGTAAGGTCAATGATCACCGATATTTCTC}$
	499451	${\tt AACCCATCAGCAACATGCAAATTGGTTGCAATGTAAGCGAAAAAAGAACC}$
	499501	${\tt TTGCTTTTGGGTTGTGTTTTCATCACCTTTTCAGTCAATTAATCAACCAG}$
50	499551	${\tt TGCCATAAGAGTCATTACTAAAGCTAGTGAAATTTAAAGTAAAAGTTAAA}$
	499601	${\tt TCATATCCTTTTCTGTATATATCACTTTCTTCTGGGATAAAACTTGTATT}$
	499651	${\tt AAATTTAAAGTTTCTGTTGTAAACCTTCTGTTCTACCTTAGGTTGCTGAT}$

	400/01	TIACTICIOTICCTIONICANTIOTICATCTITAMAGGAGIAGCGTIG
5	499751	TTATCTGTTGTGCTGTCGTTTTTTTCTTCTATAGGAACAGGAACAGGTGA
	499801	${\tt AACAGCAGAACAAGAAGCTAAAAGTGCTTGTAATGAAATTAGTGAAAAAC}$
	499851	$\tt CTAAACTTTTAGTTTAAACCACATATCAATCTTTAACATTTTAATACAA$
	499901	${\tt AAATATTTCAAAACCTTTAATTAATGAAGTTAAGAAGCACTTGTTAAACT}$
10	499951	${\tt TAGGCTTTAGCTTCAAAAATAATTGAGTTCATCTTTTCACTGATAAATTT}$
	500001	${\tt AATTATTTTATTCTGCTTAGTTTTAGATGCAATTAAAAAGAAGAAGCTA}$
	500051	${\tt ATGAAAAACTAATGAAAGCAAATGCAACCATCAAAAAAGTTAAAAATGA}$
	500101	${\tt AAATAGAACTACTATTGACTCAGGTAAACTAAATTAAAACCAAAAA}$
15	500151	${\tt AATTAATCCCGTTAGAATTTGCATTGGCTTGATAACTACTATCTAAAGCT}$
	500201	${\tt AGAAAGCCAACTACAAAGCTACCAATTAGAAGAATTAAACCAAAAATAAA}$
	500251	${\tt TCAAAAAACACTATTCAGTTTCTTTTTCATATCGAATAATCTTATCTATC$
20	500301	$\tt CGTCTTTGGTGTCTACCACCTTCAAAATTAGCTTTGAGAAAATCATCCAC$
	500351	${\tt TATTTAATGTTTTCACTGTCAGTTACAAAACGACTGGAAAGACATAAAA}$
	500401	${\tt CATTGGCATTATCATGTTGTCTAGCTAAAGCTGCTGTTTTCTCACTAACA}$
	500451	${\tt ACCAAAGCCGCTAATACTCCTTTTACTTTATTTGCTGCCATACAAACCCC}$
25	500501	${\tt AACACCAGTACCGCAAATTAGTATCCCAAGATCTTTATCAGAATTTTTCT}$
	500551	${\tt TGACCTTATCAGCTACCAAAAAAGCAAAGTCAGGATAATCATCATTAGCA}$
	500601	${\tt TCAAAATAATTAGGGCCAAGATCAACTACATTAAACTGCTTAGTCTTTAG}$
30	500651	$\tt GTGTTCACTAATAATTTTTTTAAGAGTTAAACCGGTATGATCAGAAGCAA$
	500701	TAAAGATATTAAAACTCATTTAATTCAGTTCCAGATAGTCTTGTTTTGTA
	500751	TTGGTTTTAATTTTAGTTAAAAGATTAATTAATCCTTCTAATGTATCAGG
	500801	ATAGTTTTGTCGATTGTATAGTTTTGTTAACTGTTCTAATGATCTATCGA
35	500851	TATGACTACTCTTTTGACGATATTTATTTGCAAAAAGAAAAGCTTGTTTG
	500901	CACATTAGCCTTAAGTTAACTAAACTAACAACATCACAAATAACTTCAGT
	500951	CAATTGAATTTGCAATAAATCTATCTTTTCACTAAACAAATTAAAAGTAC
40	501001	CTAAATAGTTATTAGCTTCAGTGAAGATGTTATCAAGTTCTAATTTC
	501051	GATTTATTAATTACTTGCAATGTTTTAGCAGGAACCTTTAAATCTTGATC
	501101	GCTAATTAAATTTTCAATCTGAAAAAATTTAAATCGGAAATCATCTAAAG
	501151	TATAGACAAAAAAGCGATAGTCATCAAACTTATTAACTGCTAAATTAAGT
45	501201	AAATCAGTTAGTGAATTTTTCAGTTTTTCTAAAGCTTGATTTGTTTG
	501251	CATCAAGTAAAACAGTTTTCATAATTGATTTGATTCTGAGCTAAACTTT
	501301	GATGGTTTAAGTTATTATTTTTAGTAATTAGATCGCAGTTCTCATTA
50	501351	AGCTCAATAATTAAATCATGCACATCTGTTTCATTTTGGAACACTAATTC
	501401	AATGGCTTTAATTGTTTTTAAAAGCTCATTTTTCTTTTC
	501451	GAATTTGATTACGAAAATCATCAATATTTTCAACCACTAAATTAATGCTT

	501501	TTTTCTTTGGAACTAACTGCTTGAAAAAGTCAACTAATCGCCTCTTGAAC
5	501551	. TTCATCCATATTCCTTTCGCATAGCATTAAATTTAAGTTATTAAGAAAAT
	501601	TGGTACAATCCTTTAATTTAATGGTAATGTTATTAATCAATTCATGAAGT
	501651	TTTAAGAGATCTTGACTGTTAATTACTTTATTCTTCATTAATTCCATTTG
	501701	TTTTACCTTTTGAATTAAAACCTTAAAGTGATGGGTTAAATAACTTAACT
10	501751	TAATATCAAACATATATTGCCTGTTAGCAGTAATAATTGTTTGACTGAGA
	501801	ATGTTATGTAATTTGTTTAAAAAAGCAATTTGCTTTTCTACATCTTTAGC
	501851	TTGAATACAATTTTCTATCTCTTTAAACAAGAGCGAAATCCTGTTAAGAA
	501901	CATTTAAATAGAAAAGCGAATCATATTTTCAATTAAAAAATTATTAATA
15	501951	AATTGGTTTAAAAAACAGAAAGCCTGACGATAAAAAACTAAACAATCATA
	502001	${\tt GCTATTGTTGAAATAAACAATTGCGTTCTTAGTTAGATTAATGTATTCTT}$
	502051	${\tt GTTGTTTTGTATATAGATGTTGAAGATTTTTATTTAAGAGCTTAATATTT}$
20	502101	$\tt CTATTAAATCAGATGAAACGATAAATATTATTTGGTTTACTGTAAACTGT$
	502151	${\tt TAGTTGCTCAAAAGCTGAATTGATTTCATTATCAAATTTGATTTGAAACT}$
	502201	${\tt GTTTTAAAACTTTAATGGATTGTtCTTAACGCTTGTTTTTCATTTCTTAGT}$
	502251	${\tt AATTGAAATGGACTAATCACACAATTGAAATTGCTTAATTTCAAGTTATT}$
25	502301	${\tt ATAGAGTTGTTTGGTTTTTTTAAAAGTAAGTTATTTTGTCTAACAAAAA}$
	502351	GACAAACTAATAGATAAGCACCAAAAATTACTAGTAGTAAGAAAGGGAGC
	502401	${\tt AAGATTAGAAAACCAGCATTTTATTTTTCTTACTTGAAAGTTTTAATA}$
30	502451	${\tt GTTCAAACATTAAATTTTGTTCAATTTTAACGTTTAGCTTAGCATCCTTG}$
	502501	${\tt ATATGGTGAATTTTCTTTCAAGTTCTGTTTTTTTTTTAAGGTTTCATT}$
	502551	AATATCAACTTCATCAGCAAAAACAAAATTTTCTGTGAAAATCTTAGCTT
	502601	$\tt CTGTTTTTTAATAAGCATTAAACCAGCACCAATAATTGCTTCTCTTTTT$
35	502651	GTTTGATCAGCAAAAATAATTTTGCACAGATGGGATTGAATAGCAGCAAT
	502701	CAAAGGAGCGCGATTAAAATTTAATCCTATGTAACCTTCAGTAGTTTTAA
	502751	CTTGCGCACTAATAATGGTTTTATCTAGTTTTATGCCACTAGGACTAAGT
40	502801	ACCAAAAAGCGCAATAACTTCATAAAACTATTTAGTTTTATCAAACTCTT
	502851	GATTTAATCTTTTTGCTTTTTCAACAGCCTCTTGAATGGTTCCAACATAA
	502901	AAGAATGCTTGTTCAGGCAAATGATCATGCTTACCTTCCAAAATTTCTTT
	502951	AAAAGATTGAACAGTATCATTTAAAGATACATATTTACCTGCAATACCTG
4 5	503001	AAAACTTTTCAGCAACAAAAAAAGGTTGGGATAAAAAGTTACGTATCCTT
	503051	CTTGCTCTTTCAACAATAATCTTATCTTCATCAGACAATTCATCAATCCC
	503101	TAGTATAGCAATGATATCTTGTAATTCTGCAAAACGCTGCAAGATATTTT
50	503151	GCACTCCTAAAGCGACTTTATAATGGTTGATACCAACAACACTAGGATCT
	503201	AATAAACGACTTGTTGATTCTAAAGGATTAATTGCTGGAAAAATACCTAG
	503251	TGCTGCAATATTACGATCCAACACTGTTTTAGCATCAAGATGGGTAAATG

5	503301	${\tt TTGTTGCAGGTGCTGGGTCTGTTAGATCATCTGCTGGAACATAGATAG$
	503351	${\tt TGAACAGATGTAATAGAACCTGTTTTGGTAGAAGCAATTCTTTCT$
	503401	$\tt CTTACCCATTTCAATAGCTAAAGTTGGTTGATAGCCAACAGCAGATGGCA$
	503451	${\tt TTCTACCAAGTAATGCTGAAAACCTCACTACCTGCTTGAGTAAAACGAAAA}$
	503501	${\tt ATATTGTCAATGAATAACAGCACATTCTGATTATCATGATCACGAAAATA}$
10	503551	${\tt TTCTGCCATTGTTAAAGCAGTTAAAGCAACTCTCATTCTAGCTCCTGGTG}$
	503601	${\tt GTTCATTCATTTGGCCAAAAACTAAAACTGTTTTATCAATCA$
	503651	${\tt TGAATCATTTCATAGTAAAGATCATTACCTTCTCTTGTTCTTTCACCAAC}$
	503701	${\tt TCCAGCAAATACACTTAAACCAGAATGTTCTTTGGCAATGTTATGAATTA}$
15	503751	${\tt ATTCTTGCACCAAAACAGTTTTCCCAACACCAGCTCCTCCAAATAAACCA}$
	503801	${\tt ATTTTACCCCCCCTAACGTAAGGAGTTAAAAGATCAATTACTTTTATTCC}$
	503851	${\tt TGTTTCAAAAATATCAACAGTATTTGGTTGTTCATCAAAAGCAGGTGGGT}$
20	503901	${\tt TACGATGGATTGATAGCTTTGGTTTTTTTGGTAATGGTTCTTTTCCATCA}$
	503951	${\tt ATGGGTTCACCTAAAACATTGAACATCCTTCCCAATACATTTTTGCCAAC}$
	504001	${\tt AGGTACCTCTATTGGATGGTTATAGTTAGTTAACATTACGTGCTA}$
	504051	${\tt ATCCTTCTGTAGGACCTAATGCAATGCAACGAACAATGTCATCACCTATT}$
25	504101	${\tt AATTGGGTTGCTTCTAAAAAAAGCTCACTTTTTTTTTTT$
	504151	${\tt ACAATCATAAACTCTAGGTAATTGTTTACTTTCTGAAAAGATAACATCAA}$
	504201	$\tt CTACAGGACCAATGACTTGGTGAACTTTACCATATGTTAGGTTTTCTTTT$
30	504251	${\tt TTTATCAATTTAATTCATACCTCCTATAACTTCAATAATCTCTTCT$
	504301	${\tt TAGAGTTTTGTCTTAGCTTGTTAAATTGTAAAGTGTATTTATCAAGTAAA}$
	504351	${\tt TCTTTAGCATTCTTTGTAGCAGCTTCCATTGCATTTGTCTAGAAGCTGA}$
	504401	${\tt TTCACATAACTTAGTTTCAACAAGGCCACCATACAGAGCCACATCAAAAA}$
35	504451	ACTGTGGAGTAATTAATTATCGTGGCTTGATCTGGCTCAAAATCA
	504501	AGTTGTTGATCAGTTACAACCGGATTTAAAAGTTTTAAAAGTTTCAACATC
	504551	GAAAGGAAAAACTTGAAAGAGCTGAGATTGTTGGATTAATGAGTTTTTAA
4 0	504601	ATTTAGTGTAAACCATACAAATTCGATCAAGTTTAAACTCTTTAAATGCA
	504651	TCCATAATCTGATCAAATATCGTTTGACAATAATCAAAATTAATATCACG
	504701	ATCTTGGATATCAATAAATCCAACAGCAGGATTATATTGACTATTTTTAT
	504751	TTCAAAATGATTGGTTTTTTCTACCTAAAAAAAAAGATTTTATCATCAGCT
45	504801	TTAAAATTAGCTTTTAATAACTTATTCATGTTCGAATTATGCTGTCCACA
	504851	AAGTCCTAAAGAAGAACTCATCATTATCCATAAAGTTTTTTGGTTATCTG
	504901	GTTTCTTTTTTGGTTCTTTTAAAGAAACAACTACTTGGCCAACAGCTTTA
	504951	TAAAATTCATTAAAAAACAAACTAATTTCTTGAAACTGTTTTTTGAACTT
	505001	AATAAACTTAGCGCGTGACACCATTTTCATTGCATTAGTTATCTTAATGG
	505051	TGGATTTTACTGTATTCATTCTGCGCTTAATTTCTTGTATAAAAGCCATT

505101	${\tt AATTAAGTTCCTCAATACTACCAAATTTGGTAATATCATAATCTGTTAAT}$
505151	${\tt GTACTGATAAAACGTTTCACAAGCATTTTAAAAGCGGTTTTAGTTTTACT}$
505201	${\tt TTCTAAATCCTCAGTAAATTCTTTTTTTTTTAGATAACTCTTTAAACAGAG}$
505251	${\tt GATGGGAACCATTAAATTCTTCTGTTATCCTTTGTTTAAATTTAGCAATT}$
505301	${\tt TCATCAACTGGAATAAACTTAATGAAAGCTTTGTTAATAGCAAATAAAAA}$
505351	${\tt TAATGCTTCATGGACTTGAGAGTAAGGTTTACCATTTGGTTGTTTAATCA}$
505401	${\tt TTTCCATTACTCTTTTACCATGCTCTAAAACCTTTTTTGTATTTTCATCA}$
505451	${\tt AGATCACTACCAAATTGACTAAAACTATCAAGTTCACTATACTGAGCAAG}$
505501	${\tt TTCTAGTTTTAAACTGCCAGTTTGCTGTTTAATCGCTTTTGTTTG$
505551	${\tt CACTACCAACCCTTGAAACTGATAAACCAATTTGAATTGCAGGGCGTTGT}$
505601	${\tt CCAGCGTTAAATAGACTACTAACCATAAACAGTTGGCCATCAGTAATTGA}$
505651	${\tt AATAACATTTGTAGGAATATATGCAGAGATATCACCAGCTTGAGTTTCTA}$
505701	${\tt TAATTGGTAAAGCTGTAATTGAGCCACCACCATTTTCATCATTTAACTTG}$
505751	${\tt CATGCACGTTCCAAAAGTCTTGAATGTAAATAAAAAACATCTCCTGGAAA}$
505801	${\tt AGCTTCTCTACCAGGTGGTCTTTTTAACAAGAGTGAAAGAGTTCTGTAAG}$
505851	${\tt CAACAGCATGCTTAGAAAGGTCATCAAAATCAAAACATCCTTTCCT}$
505901	${\tt TTTTTAAGTCAATATTCAGCAATAGTTATTCCTGTAAAAGGACTTAAATA}$
505951	${\tt AACCATGGAATCAGAGTCACTAGCTGTAGCACAAACCACTGTAGTGTATT}$
506001	${\tt TCATTGAATCATTAACTTCAAGTTGGTGTACAATTTGTGCTACTGATGAA}$
506051	${\tt TTTTTTGACCAATTGCTACATAAACACAATAAACATCTTTATCTTTTTG}$
506101	${\tt ATTAATGATAGTGTCAATCGCAATAGCAGTTTTACCTGTTTGTCTATCAC}$
506151	${\tt CAACAATTAATTCACGTTGTCCTTTACCTATAGGAAATAAAGCATCAATT}$
506201	${\tt GTTAAGATTCCAGTTTCAAGTGGTTGGTTAACACTTTTCCTTTTCATTAC}$
506251	${\tt ACCTGGAGCAATTTTTCTATTTGATCATATTCAGTAGCTTTAATATCAC}$
506301	$\tt CTCTACCATCAATTGCTTCACCAAGTGCATTGACGATTCTACCAAGCATA$
506351	${\tt ACATCACCAACAGGAGTTTTCATTACACTGTGGGTTCTTTTAGCGGTACT}$
506401	${\tt GCCTTCTCGTAACGAAGAATAGTCACCAAAAAGTGCTATTCCGACTGTAT}$
506451	${\tt TTTGTTCAAGGTTTAATACTATTCCTTGAATATTATTTTCAAATTGAATT}$
506501	${\tt AACTCATTTAATAAAGCATTTTCAAGTCCACTAACCTTGGCAATTCCATC}$
506551	${\tt AGCAACACTAATGACTTGACCAATTTCACTGTTAAATATTTTTTTGGAAT}$
506601	${\tt ACTTTTAATTTCAGTTTTGATTAATGCTACGTATTCATTTAGTTTATCT}$
506651	${\tt GCCATAACTTCTCAATTAACTTAAATAAAATGGGCCATTATGCGTTTTAA}$
506701	${\tt TTCATCACGCACATTTTTTCAAATAAATGGGAACTTGATTCTATCCTAA}$
506751	${\tt TTCCTGAAATTAAACTGCGATCAATCTCAGTTTTATAAACAACCTTTGTT}$
506801	${\tt TTAAAACGTTTTTCCATTATTGCAATAATTTTGTTAAGTTGTTTTGAGCT}$
506851	${\tt TAATTCAAAAGCAGTAATTATTTTGATAAATTGAATGTGTTTTTGACTTT}$

	506901	${\tt CAACATTATCAAAAAAATACTTAATTGCCTGTTCAACTAAAGTAAAGTAA}$
5	506951	$\tt CCCTTTAAAATAATTACTTTTAAAAAATCAACAAAAACTTGACAAAAATG$
	507001	${\tt ATTTTAAACAACTTATCAACAAGTCTTATTTTATCTGGTTTTGTTAGTG}$
	507051	${\tt TATAAGAATTAAGTAAGAACGATAATGAACCATCTTTAAAATTACGCATT}$
	507101	${\tt AATTTCAGAAAAAAATGGCACTCTTCATAAATTTTCTTTACTTGTTTTTG}$
10	507151	$\tt CTCTTCACTTAATTGAAAAAGTGCAGTTCCAAATGCTTGTGCATTAATCA$
	507201	${\tt TCTTCTGTTTCGTTAGCTTCTAAATCTCTAATAAACTTATCAATAAATTC}$
	507251	${\tt TCTATCTGATTTTTGATCTATTTTCTTGAGAATTAGTTCTTGTGCAGCCA}$
	507301	${\tt ACATAGCCAATTCCACACTCTCTTTAATAGATTGTTCTTTAAGAGAACGT}$
15	507351	${\tt CTTTCTTTTCAATTTCCTGACGAGCTTGAAAAATCATTAAGTTAGCTTG}$
	507401	${\tt GCGATTTGCTGTTTTTCTATTTCACTTTTTAATTGCAAAGCTTCATAGT}$
	507451	${\tt TAGCTTGATCAACAATTTCTTTAGAAACTATTAGTGCTTTTTCATGCCTT}$
20	507501	${\tt TGATTAGATTCTTCAAGTAGATTTCTTGCTTGTTTTTCTAATTCATTAGC}$
	507551	${\tt TTGTTTGATTTGTGCTTCTAGTAAATTTTTACGGTTATTTAAAAACCTTT}$
	507601	${\tt GAGTTGGTTTCAAAACAAGAAAATCATCAGTGTTAGTAAGATGAAAAAT}$
	507651	${\tt GCTAGTAAATGAGTAATAAATACCCAAAAGTTAGGAAAAAGTTCATTTAT}$
25	507701	${\tt TACTGAACTACTCTTAATTTCTCTAACATTCTCAGTACAAGAAACCAAAA}$
	507751	${\tt ATAAGCTGAGTGTAAAAAAGCTAAAAACTAATAAGCTTCATTTAAAGACA}$
	507801	${\tt AGTTTTTTGCCTTTACCATCCTTAAGCTCCTGCTACAAAAATTAAGATA}$
30	507851	${\tt AAGGAAATTAAAAGTCCATAAATTGCTGTAGATTCAGAAACAGCAGAACC}$
	507901	${\tt AATGAAAATTAGTTTAAAAACCTGTTTTTCAACTTCAGGATTTCTTGCTA}$
	507951	${\tt TTGCCTCAACAGCTTTACCAAAAATATAACCTTGTCCAATCCCTACAGTT}$
	508001	${\tt GAACCTGCAATCATAGTAACACCAGCACCTATATAAGCACCTAGCTTAGC}$
35	508051	${\tt ACTAGCGTTAACATCCTGGGTAGTTTGAGTTTGTAATATAACACCAA}$
	508101	$\tt CTGTAGCTAAAATTTCATTAACATGTTCCATAACTAAATATTTTCTTGAA$
	508151	${\tt TTACCTTTATGCCTTTAAAGTGTAATTCACTTGCATTATTTTTCCAAA}$
4 0	508201	CCTTGATTGCGCATTTTAGCCCAATAATTATAAGTCAACATTACAAAAAC
	508251	ATAACCCTGCAATACACCTGCAATTACATCAAAATAGATGTGTAATACTG
	508301	GGGTTATTAAACCTGCAAAAACTGTTCCTAAGCTAAGGTGCTAATGGTTGG
	508351	TTATTAATACTTGAAAAAATAAAAATTCAAAAGTTATAAAAAAGCGCCAA
	508401	AATAACTGTGCCCGCTAATATGTTTCCCCCATAACCTTAATGAAATAGAAA
	508451	AAAGCGGTGCAAATCCACTCAATATACTAAAAGGATTTGGAATGAAAGTA
	508501	GAATACTTTTTCCTTTAACAGTAATTCCAAAGGCAAACTCTTTAAAAAA
50	508551	ATTTCATCTTTGGTATCTAATCCCCATAACAACAATCCCAATAAAAGTTG
	508601	CAAGTCCTAAAGAAAAGTAAATGTTAAAGATGATGTTGGTGGTGAAATA
	508651	CCACCAAGCAAGCTAACTAAGTTGCTTGATACTATGTACAGAAGCAACAT

5	08701	TAAAAAGTAGGGAGCAAATTTCTTATTTTCCTCTCTAAAAGATCTGCTG
5	08751	$\verb TTGTATCTTGTACCCAAACAACAACATTTGAAATAAAAGCAAAAAATAT $
5	08801	${\tt GAATTATTTTTAAAGAATCTGCTTTTTTTAACTTAAGCTTATAAAAAAT}$
5	08851	${\tt AAAAAAGTTAGAAGCAGTACAAAAACAATAAAAATACCAAGAATTTGAT}$
5	08901	${\tt CAGTAGGGGCAAATGGTTTTCAACCGCTAATTGGTGAGATATCAAAAATA}$
5	08951	${\tt CTTTGATTGGAAATGAAATCTATTTGATTAGTTTCTTTAAAACTATCTC}$
5	09001	${\tt CCGTGGCGACATGTTTTCTTTTCGATTTAGATATTAAATTGATAAAAAAA}$
5	09051	${\tt TATTCTAAAGGTAACCAAACAAATGATAACACTAAATTTAGTATTGGAAA}$
5	09101	${\tt AAACAATGTTGAAATTATTGTTGCAATAGTGTTAAAAATTGACGGAGTGA}$
5	09151	${\tt CAACAAAGAAATAATCACAGGAATTAAATAAATTAAATATCTAGCTGTG}$
5	09201	${\tt AAAAAAAATGCAAAGAATGAAACTGCTTTTTGCTTTTTGACATTTTTCAA}$
5	09251	${\tt ACTTGCAAAGAAAGATGCTAATCTTAAAACTGATAGTGAATTTAAAACAG}$
5	09301	${\tt CAAAAGGTAATGGCAACATTCAACCAAATAAAATGTCCAAATTATTGCCT}$
5	09351	${\tt TTTGTTAAAACAACAACTGCTATTAAAATTAGTACAAATAACCAAGCTAC}$
5	09401	${\tt AAAAATAATTAAGGTAATAATTTTTGCAACCTTTCTATTGTTTCAATTGA}$
5	09451	${\tt ACAAAACTTTTAGATGTTAAAGTTTTTAGGTTTAATGTTTGTAAAGGTAT}$
5	09501	${\tt TTCAACCTAAGTATTTTCCTTTATCACCAAGTTCAATTTCTATGTACAAC}$
5	09551	${\tt AAACGATTGTATTTAGCTATTCTTTCTGAGCGTGACATTGAACCGGTTTT}$
5	09601	${\tt AATTTGACCAGTTTGGGCAGCAACTGCCAAATCAGCAATAGTTGTATCTT}$
5	09651	$\tt CTGTTTCACCACTGCGATGTGAAATTACTTGACTCCAGTTAGCTTTTTT$
5	09701	${\tt GCAACTTCAATTGTTTGAATCGTTTCACTAATAGAACCAATTTGATTTAA}$
5	09751	${\tt TTTAATCAATATCGAGTTTGTTGTATTTTGTGCAACACCTTTTTTAGCAA}$
5	09801	${\tt GTTCTGCATTAGTACAGTAAGTGTCATCACCAACAATTTGAATATGGCTA}$
5	09851	${\tt CCTATGGTTTAGTTAATTGGTTCATCCCTTCTCAATCATTTTCACTCAA}$
5	09901	${\tt ACCATCTTCTATTGAAATAATTGGATATTTTTTTTTTTT$
5	09951	${\tt AAGCAATCATTTCTTTGCTTGTTAAACTCCAATCCTTTGCATTAAGGATA}$
5	10001	${\tt TTAGCTTTATTCCTTGAAAACATAAAGTTTTTATCTTCGTCATA}$
5	10051	${\tt AAACTCACTAGCAGCAACATCAATGGCAATAGCAATATCATCTCAAGGCT}$
5	10101	${\tt TATATCCAGCTAATTTAATGGCTTCAACCATGATGTCAAGTGCATCTTCT}$
5	10151	${\tt GCAAGTTTAAGTTAGGCGCAAATCCACCTTCATCTCCTTTATTTGTGTT}$
5	10201	TAATCCACGCTTTTTTAAAAGATTTTGTAAAGCATGAAAAGTTTCACTAG
5	10251	${\tt CCATTTTAAAGCTTCATGCATCTTTTTAGCACCTAAAGGCATGATCATG}$
5	10301	AACTCTTGAAAATCAATATAGTTATCAGCATGAGCACCACCATTAATTA
5	10351	${\tt ATTTAACATTGGCACAGGTAAAACAAAATTTGTTGTATTTAATCCAATTA}$
5	10401	ATTTATTTGAAATGTATTGAAATAATGAGCTGTTTTGTGCTTTTGCTGCT
5	10451	GCTTTTGATACTGCAAGTGAAACAGATAATATAGCATTTGCTCCTAATTT

	510501	${\tt TGCTTTGTTGGGAGTATTGTCTAGTTTAATCATTGCTTGATCCACTGTTA}$
5	510551	${\tt ATTGATCAAATGCATTTAAGCCAATAAGCTTAGGGGGCAATAACTTTATTA}$
	510601	${\tt ACGTTATCAACGGCTTCGTTAACGCCTTTACCAAAATAATTTTTTGGATC}$
	510651	${\tt ATTATCACGTAATTCAATTGCTTCTTTCTCACCTGTAGAAGCACCTGATG}$
	510701	${\tt GAACCATCGCTTCACCTACATGACCAGATGCCAATTTAACAACACAAGCT}$
10	510751	${\tt ACTGTTGGAACACCCCGAGAATCAAAAACTTGATAAGCAAAAATATCGGT}$
	510801	${\tt TATTTTGAATTGATGTTTAGATTTGAACTTCCCATATTAAATAGAAAAA}$
	510851	${\tt TATTGTTAATAAAATTATTATATGTTTTAAGATTTCTATTAATTCAAGTA}$
	510901	${\tt ATATGAAAGAAATTTATTTTGGTGGTGGTTGTTTTTGAGGAATAGAAAAA}$
15	510951	${\tt TATTTCAACTTATTAAGGGTGTTAAAAAAAACATCTGTTGGTTATCTCAA}$
	511001	$\tt CTCTAGGATTAGAAATCCTAGTTATGAGCAGGTTTGTTCTGGTTATACTA$
	511051	${\tt ATGCTGTTGAAGCTGTAAAAGTTGAATACGAAGAAAAAGAAATTTCTCTT}$
20	511101	${\tt TCAGAATTAATTGAAGCACTTTTTGAAGTTATTGATCCAACTATAAGAAA}$
	511151	${\tt TAGACAAGGTAATGATATTGGAACACAATATCGTACTGGTATTTATT$
	511201	$\tt CTGATAGCAGTGATGAAAAAATAATTAATGATAAGTTCTTAAAACTTCAA$
	511251	${\tt AAAAACTACAGTAAACCAATTGTTACAGAAAATAAAAAGTAGAAAATTA}$
25	511301	${\tt TTATCTTGCTGAAGAATACCATCAGGATTATTTAAAAAAGAATCCAAACG}$
	511351	${\tt GTTATTGCCACATCAAATTTGACTAATTAAATATTTCAGGATTTTTAATA}$
	511401	${\tt AATAAAAAGGATTTAATGATGTTATAGCaATAATCATTAATCCGTTCAAT}$
30	511451	${\tt ATGTTTAACAGAAGCTACAAGATCAATTAAGAAAATCCTTTCAGTAACCT}$
30	511501	${\tt CATTTTATTAATGGTTTCATAGTATTTTGTTAATACAAGGCGATATTGG}$
	511551	${\tt TGCTCAAATTCAATAATAGTTTTGGTTGCATTTTCAAATTGTAATGTAAG}$
	511601	${\tt TGGCTTTTCTTTATCTTGTAAACTTTCAAAGGTTTTCTTAAGGTTATTGA}$
35	511651	${\tt GCGCACTTTGATGCAAAGTAACTAGATTATTAAAAATCTTTATATCAAGA}$
	511701	${\tt TGCAAATAATGTTCTATAAACTTAGTTAAATTATTAGCATAATCACAAAT}$
	511751	${\tt GCGTTCCAAGTCACGACTTGACATAATTATTGTGATTGTTAGGCGTAAAT}$
40	511801	${\tt GGCTAGCTAATGGAGAATTTTTAGAGATTGTCCAAATTGATTCATTAATT}$
40	511851	${\tt AATTTAAATTCAGACCTATTAGATTGGTCCTCCATTTCATAAATAGTTTT}$
	511901	AATCAGTTCTTTGCGTTTTTCTAAATTATCTTCACAAAGTAATTGATTTA
	511951	ATGTTTCATGTGCATTGATTACGTGCTTAAAATACTCAAAAAAAA
45	512001	AATAATTTCTTTTCTGAACGCTTTAAAATTTGGTAATTAAT
	512051	AGCTAATTTTCCCACTTATATAACTATTTGTTGCTTTTGCTTAGGCTT
	512101	TGTAAATATCTGtTTTGTAGTGCCTTGTTCAATTACTCTTCCATCAGCAA
50	512151	AAAAAATCGTTTCATCAGTTATTCTAATTGTTTGAGCCATAGAGTGAGT
50	512201	ACAATAACAATTGTGAATTTTTCTTTTAGTTGTTGAATTAGAAGTTCAAT
	512251	AGAGTTTGTGGCAATTGAGTCTAAAGCACTGGTAGGTTCATCCATC

	512301	${\tt GAACATCTGGTTGTAAAGCAATAGCACGCGCAATACACAAGCGTTGTTGT}$
5	512351	${\tt TGTCCACCAGAAAGGGTGTTTGCATTCCTATGTAAATTATCTTTCACTTC}$
	512401	${\tt ATCTCACAATGCTGCTGATATCAATGCCTGTCTTACTATTTCATTGATAG}$
	512451	${\tt CATTTTATTGTGAATACCATGTGCTCTTATGCCATAAGCAATGTTTTCA}$
	512501	${\tt AAAATAGAAAAATTAAAAGGAGTTAATTTTTGAAAAACCATGCCAACACT}$
10	512551	${\tt AGTGCGCAATGTTAAATCATTAATAATTCCTGAATTGATATTCTTACCAA}$
	512601	${\tt GAAAATATATGTCACCTGTTCAACGTGTGTTTTCATTTAAATCATTTAAT}$
	512651	${\tt TTATTTAAGCACCTAATAAAGGTGGATTTACCGCATCCTGATTTACCTAT}$
	512701	${\tt TAAAGCAGTTATTTATTGCGTTTAATGTCAAGATTGATATCAAATAATA}$
15	512751	${\tt CTTGTTTGTTTTTTTATCAGAAGTTGAAATTTCGAATTTCAAATACA}$
	512801	${\tt TTTTTTCATCAAAATCCTTTTTAATGACATTATCTTTGGTGTTTTTAAT}$
	512851	$\tt CTTTATTAGACGGTTTAAAATTTCAATTTCATTCTTAATACGGGAGATTT$
20	512901	${\tt CATTTGCATCTGTTTCATTATTTAAACCAGTAATTTTCTTTTTATATTCT}$
	512951	${\tt TTGATTTGTTGATAAAGCTTTCGGTAATGCTTAATTTTTTCAAGCTT}$
	513001	${\tt CAATTGAAAATTTTTTCAAAGTGCTTTTATGTTCTTTTCCATAATTTAAA}$
	513051	${\tt GGACTGAAATTTACTTTAATTACTAGCCATTTTTGTTTATTTA$
25	513101	${\tt ATAAACTCGGGATTAAATAAGAACTGAAAAAGATTAAAAGAATTAAGAAA}$
	513151	${\tt ACAACAGAGACCAATGATGTTTCTAACATAACACTTATTGCATTGCTATT}$
	513201	${\tt AATAGAAAATAACTGTCCATATATCCTTGTTGTTAGTGTTTGACCTGGCA}$
30	513251	${\tt ATGACAAATGAAATTACTAGATGATAACCCTGAAGTGATAAAGAAG}$
	513301	${\tt GGTGCAGTTTCAGCAATAATTCTGTTGATTGACAAAATTAATGCAACTAT}$
	513351	${\tt TAATCCTTTCAAAGCACTAGGTAAAACTATTTTGAAAATAACTTCACGTT}$
	513401	${\tt TACTTATACCTAAAGCAAAAGCACTAATTCTTAAATCCCAACTGACATTA}$
35	513451	${\tt TTTAGTGCTTGTTGACAAGLTCTTATAAGGAAGAGTAATATAACAACACT}$
	513501	${\tt AATAGTTAGAATGCCTGCTATTAAACTAGTACCATTAGCTCCTCCAGCAC}$
	513551	${\tt TTAACTGCAAGACTCTTAAAAAGAAAGAAAGTCCAAATAATCCATAAATA}$
40	513601	${\tt ATAGATGGCATTGAACTTAGTGAATCAATTACAAAGTTAAAAACATTTTT}$
	513651	${\tt AACCACTTTGAATTATTGTACTCGTTAAGTCAAATTGCAATTAAAAGTG}$
	513701	$\tt CTAGTGGAAAAGTAATGGTGATAGTAATCAAAATAATTACTAGAGTATTT$
	513751	${\tt ACTAGTGCTCTGCCAGTTGAATCAGCTTCAAATGAAAAAAACAGTAGAACC}$
45	513801	${\tt ATTATTATTAATAGCAACACTTCCATTAATAAATACAAACAGCAAAATTG}$
	513851	$\tt CTAACACAAATCCAAAAGCTAAAAAAGTACAAATTAATTCCTGGAATATT$
	513901	${\tt TTTAAAAAATAATTAAGTTTTATTCAAACAACACTTTGAAGCCTTTCTTT$
50	513951	${\tt AAAAAAAAGTGAACGTTCATTGATGTTGTTTACTTTTTTTT$
30	514001	${\tt TTTGTCTTGTTGATGTTAAATCAACAAAAAGTGCACTAATATTATTGGGA}$
	514051	$\tt ATGAATCACAACTTGATAAATAAAATTACTAATCTTTTTTAAAAAGGG$

	514101	${\tt ATAGCGTTCCAGTGTTTTTGGATTAGCTGATCAAATGGCAAAGAAATTTA}$
	514151	${\tt ACAATGAAACTAATATCAAAATTATGATTCCAAAGATATATAAAACACCA}$
5	514201	${\tt TTAATCTGTTCATCTCCATTTTCTGAAAAAATAAAAGTGGAAATAACTGA}$
	514251	${\tt TCCCAGTGTTTTTAAATCAGAAGTAAAAAAACGATTGTTGTTAATTACCT}$
	514301	${\tt CTTGATAGTTAACACTCTGCAAAACAAAGTTAACAGCCATTGTTTCACTA}$
10	514351	${\tt ATTGCTCTCGCAAAGGCTAAGGTCAAAATAACTGTTAATTGTGGTTTAAT}$
	514401	${\tt TTCTTTTTAATAATTTTGTAGATCGCACTTGTTTTATTTTCCCCTAAGG}$
	514451	${\tt AAACAACAACAACTAATTAGATCGTTATTTACATAAGTTAATGTATTTGTT}$
	514501	${\tt GTTAATGAAATAACAATAGGAATGATCATAAAAGAAAGCATAGCTATCAC}$
15	514551	${\tt ATTTAAAAGTGAAAGCGGCGGTAATTTCAAGATATCCCGAAAGAAA$
	514601	${\tt TTAATATTTGTGATGCAAATAATCCAAAAATTACAGATGGTATTCCTGAA}$
	514651	${\tt AGGATATCAATAATAAGTGAAAGTTTTTTTTTTTTTTTT$
20	514701	${\tt ATAAACAAGGAAAAATGAAGTTCTAACCCCTATATAACTAGCAATAATTA}$
	514751	${\tt AAGCTCCTATTGATACAATAAAACTTACCAATAAGGGGAATCAAATTCCT}$
	514801	${\tt GCCTGTTTATTACCTAAATTAAATTCAAGATTAAACAAGGACTTTGCAAA}$
	514851	${\tt ATCAGGTCCAATTTTGTTGCTTCTGTTAAAAGAAAAAAAA$
25	514901	${\tt TAAATAAAACTAAAAACAAGAATGCTAAAGTCTTTGAAAAGATTCTTAAA}$
	514951	${\tt AGATTCTCTTTTTTAAACGTTTTTTAATCTTCTTTTGCACTAAAAAGCT}$
	515001	${\tt CCAAAGATAGGATTACLAAAAGCAAAGTCATCAACTCAAAAATTTTCTAA}$
30	515051	${\tt ATTCATTGGTGATGAGTCATTTGTTTTAAACATCTTCTTTTTCTCATCTT}$
	515101	${\tt CAGTTAATTGCAAAATACCAAATTCATCATAAATATTTTTAATTACATCT}$
	515151	${\tt TTTTTTCCATTAAAAAATAATCAATTAAAAAAAGTTTTAATTTCATCAAT}$
	515201	${\tt ATTCTTATTCTCTTCAGAAAGTGAAACTATTGAATTTAAAGGACGTACTC}$
35	515251	${\tt ATTTATACTCATTTTGGGAAACAGTTTGATTAGAAGGCAAAACTTCCTTA}$
	515301	${\tt TTCTCATATTTAATTGGTAGTATCTCAAAACCATTATTTTAATAGCTTG}$
	515351	${\tt AAGGTTGTTTTGAATAAATCCTAAACTAAGGTAAATCATCCCGAAAAGAT}$
40	515401	${\tt TAGGATCTTGTAAGTTAGTTACAAAAGTATTAAAAGCTTCAATATTTGTT}$
- 0	515451	${\tt TCACTAGTAGGTTTAGCAAGAGGTCCATAATTAATAATTCCTTTCAAAAT}$
	515501	${\tt ATCTCTAGTTTGAGAATCTAAAGTTTTATCTGATTTTAAGGCGGAAAAAT}$
	515551	TTAAAAAAGCTTCTGCTGTTCCTGAAGCAAATGACCCACCAGTTCTTGGA
4 5	515601	${\tt AAACTTGTTAAAGGGTAATCTTTTTCATTTGACATATTTTTTTGTATCCTT}$
	515651	${\tt TTTTACAAACTTATCAATGTTAATTGTTTTAACACCAGCAAATAAGTCGT}$
	515701	${\tt AGAGATCATTTATATTATCTTTTGTTAAAAGTAACTTACCTTTTAACTCC}$
50	515751	${\tt TGTGGTGCCTTATAAATTACTGCAATAGCATCTTTGCCAATAGTTAAAGT}$
50	515801	${\tt TTTCAGCTTTTATCTCTTCATTTTTTTCATTCTCTTTTGCATATTCCT}$
	515851	TAGGGTTTTTAGAGACATTTCCGATATCAGCAAAGCCGTTAATGATTGCT

	515901	CTGATTCCAGCATTTGATCCGCCTGCTTGCACACTAATTTCAACAAGCTT
5	515951	${\tt ATCATTGTCATTATTTTCATTTAGAACATAATAAGAACTTAATTTATTT$
	516001	GTAAAGGTTGAACTGAAGAAGAACCAACAGCACTAATCAGGTTTATGTTA
	516051	${\tt GCACAACCACTAAGAAAAAAAGCAGATGCTAATGTTAGTAGCGTCAATTT}$
	516101	${\tt AAAGAAATTTCTAAACTTTAGCACTTTTTAAACAGATTAAATCTTTTCTA}$
10	516151	${\tt AAGAGAATTCGAATTGACACTCAGGTTATTATTTAGTCTAGTTTTTTCAC}$
	516201	${\tt AAGCCAATTAATTAAATGAAATGCATTTTTATTAATTGCAAATTTAATT}$
	516251	${\tt TCTTTTCTTAACAATTTTCTTTTTTTCTTCATTTTAAAAACAAAACAGCAG}$
	516301	${\tt AACTTATCATTAAGCTAATGATAATTCCAAAAATGACTCATAATATTAAC}$
15	516351	${\tt TCAACATTTGTATCTTGTTTTTTAATTTCATTTTTTTTTT$
	516401	${\tt TTCATAGGATTTATCTTGAGATTTAAGATTAAAATCTGGAACTCTCTTGA}$
	516451	${\tt ATTGCAGGTTATTTTGTTTTAGATAAAATGATAATGCTTTGAAAAGTTGT}$
20	516501	${\tt GTTTGATTTTCACTAGTAATATCAAATCAAATCAAATGAATTATCAAAACCATT}$
	516551	${\tt GGCATCTACAATTAAAAGTGTTTGATTATTTGTTATTTTAAATCATAGC}$
	516601	${\tt TAATACTAAATACTTGGTTATCATTATTAACACCTTTAATAAATA$
	516651	${\tt TTTGATCTAACATCGACATCAAAAACTAAATTAAATTGATTTTTTTT$
25	516701	${\tt TACTAAATGGATGTTAATAAATTTATTCTTTAGGTTAAAGCGGACGTTTT}$
	516751	${\tt TAGTTGTTTGCAATCTTTTTCACTTAGAGTAATATTGAGTTTATCAACT}$
	516801	${\tt AGTAATTGTTCGTCATTTAAACTAAAAGGTTCATGAAAATCAAGTTGATA}$
30	516851	${\tt ATCCTCTAGAAATTTAAATGAAGATGACTTTAAATCTAATTCAGCAATTT}$
	516901	${\tt TTAAGTTATCAACTGATAAAAATACCTTGTCTTTTTCTAACTTAAATCCC}$
	516951	${\tt AGGTCATTTTATCAACAAAAAGTTTGTTAGTATGAAATTAAATAAA$
	517001	${\tt TGTTCTTAATTTAGGGTTTTTTTGATTTTGTGATAGAAAATACATTTTGT}$
35	517051	${\tt CTTTAATAATTTCAGAATCACTTTCAGAACCATATTTGAATAGTTCATTG}$
	517101	${\tt CTATTATTTATTTCTGCTAAAACATAAAATATACCTTTCTTT$
	517151	${\tt AGGCTCTAGATGTTTGAAATATTTTTTTAGGGTTATCCACAAATGTTAAAG}$
40	517201	${\tt AGTTACTGTTGATATCTAAATCAATATTCTTATCCTTAGATTTAAAACTA}$
	517251	${\tt TTTTTGATAATGAAAGCCATTTGTCTTTTTCATAATCATTAAACTTTTC}$
	517301	${\tt ATTACGTTTTTAAGTTCAGCAACATTAAAGTTTTGAACATTTTTATTTA$
	517351	${\tt GTGGAATACGAAAATCTTTAGCAATTCAACGCTGTTCATTAAAATCTTTT}$
45	517401	${\tt CTATATTTAAATTTGTATTCAAAACCATCCTTAGTTCTTTTGATAGTTGA}$
	517451	${\tt AAGTTTTTAATACTGTCAAACAGTGGTTCAACACTATAGTTACTAATAT}$
50	517501	${\tt TTTCTGATTCATATCCATCTACAAAAAATTAAGTGCTAAAAATTCAATA}$
	517551	${\tt TTCATTTCATTATCTGCTTTCTGTTTTCTGTTAAAAACTCCTCAATTGA}$
	517601	${\tt ACTTAAATCAAAATAATTCTTGTTATTTCTTAACAATGTTATTTCATTTA}$
	517651	CAGAATTACCAATTTTTACTTTAACAGTTAATGTTGATCTATCAAAAATG

	517701	${\tt GTTTTGACCATTCTTGGTAAATTTCTAATAAAGAATAGTTCTTTTTTT}$
	517751	${\tt GTTTGGTGACATTTGCAATAGGTTGTATAAATAATCTAAATTTTGGATAAA}$
5	517801	${\tt AATTACTTTGATTATTGGTTGAAATATTAAAGCTTTTTAACGCTTCATTT}$
	517851	${\tt TTATCAATTGATTCATCAATTCTTTGATTAATTAAACTAACT$
,	517901	${\tt TGCATTTATGAATTTATCTTTAAATTTAATAGTTGGTTTAATTTTTGTAC}$
10	517951	$\tt CTATTGTTTCTTTATTTAGAGTTTTTTCAGTTTGACTAACAAGCGAATTA$
	518001	${\tt ATATCAAATTCCAACTGTGAAATTCAAAGCTTTGAAAGATTACTGAAACT}$
	518051	${\tt AATTGGTAAAACTTCATCAGGATTATTTTGCCTTAGATAAAAACTTATTT}$
	518101	${\tt GATGATGAACAACTTCTTGTTCAGGTAATATAGGTGTATGTTTAAAAATA}$
15	518151	${\tt TCCCATTTACTGTTGAATGCTTCACGTCTACTATCTTCAGTTTCTGGTCT}$
	518201	${\tt AACTACTAATCCATTACCTAGTCTTAATATCGTTTGAGTTATTTCACGAT}$
	518251	${\tt TATTAGTAAATGCTTCAATGATTTTTCTATCCTTTTTCATTTTCTCTTTA}$
20	518301	${\tt AACTCATTTATACTCATCCAATGAGCATCAACTTGTTTGT$
	518351	${\tt AGAAAAAAATCAACTGCTTCTACCAGGAAAAGGTTCGTTTCACTGAGCGT}$
	518401	${\tt TATTCTGTTCAAAAACTGGAGGAACTTTCACTAGTTCTAAATCTCATCAG}$
	518451	${\tt AAACGATAAGCTCTAATTGGTGTCATTGCTAAACCTCATCAGAAATCTGG}$
25	518501	${\tt AGCTACAAAAATATTATTTTTCAGTCAGCAAAAAATCCTCTTGATTCTT}$
	518551	$\tt GGCCAAGATAATATCACATAGGTGCATTAAAATCAATTACCA$
	518601	${\tt TTATTACCTTTTCTTAATCATTTAATATTTCTAATAACATCTTCT$
30	518651	${\tt TGGTTTAATCATTCTTAAAGTCGATCCTCACATGTGAACAAACTTAGCTT}$
	518701	${\tt CAATAAAATATGCTTTTTTATGACTGGGCTTTGTAAGGTCTCAAAAATAA}$
	518751	${\tt GGATTATCAGGTTTATATCAACTTTTGTTTCAAGAACCATCTGGATTTGT}$
	518801	ACCAGTTATTTCTATATTCCTAGAAGGAACTTCGGTTCATTTTCATTAG
35	518851	TATGACCATCTCTTGGAAAAAATTAGAAATTGCTTGACTATGAAAATAA
	518901	AATCTCTGCTCACTATGGATATCAGATGACCATGAGTTTCTAATTCCAGG
	518951	GTATCTAAATGTAGATGAAAATGCATGTGCAATATAACTACTCTCAATTT
4 0	519001	TTAACTTTATGTTCTTTAGATAATAATATTGTTGTATCAGTGAAAGTTA
	519051	TTATCTCTAATAATTTGTTTGTAATTATCACTATATTTATT
	519101	ACTTCATTCGAATAAGTTTTTGCAAAATAATTATTTTGATTAGGTC
	519151	TTTGAATTACTTCATTATCAAAATTAAAGCTTTTTCGAAAATAATCGTTT
45	519201	TTTAAATTAAATCCAGCTGTATAGCTTCTGTTTTGAATTGTGTTTGGAGA
	519251	GAGATAAAGATTAGTATCTACCAAGTTTTTTTCAAGTGAAGCATTAGCTA
	519301	AAGCAACGGGAAAAAGAAAGAAACTAATAAAGGAATAAAAAGATATGAA
50	519351	CGCATAATTTATCTCATTAAATAAATGTGTATTTAATGAAAATATTGACAA
	519401	TTTTTATTGCTAGTTCTTGTTAAAAATTATCTCTTGTTTTATTTTTATC
	519451	ATCTTTTGTTTTTTTTCACTTATGAAAGTAAATAAAAACAGTGATAAA

5	519501	CAAAACTAAAACACTAAAACCAATAATCAAATATACTATAATA
	519551	${\tt TTTTATCTTCACTATTAGATTGAATAATTTTGTCTATTTGAAAACTATAG}$
	519601	$\tt CTGTTTTTTAAGCTAAAATTAGGTTCTTTTTAAATTGAAATTTTT$
	519651	${\tt TAATGAGAGAAATAACTTAAGCTCATTTTTCAGTTTCTGATTATTTTCT}$
	519701	${\tt TATCAAGATCAAACCAAATATATTTATTTAAGTAGTTATTTGTTGTTCTA}$
10	519751	${\tt ATTTGCAATTCATTTTTGATAGCAATATCATAAACAAGGCTAGT}$
	519801	${\tt TAATCTATTTTACTTATATTAACTTCAATATTGAGCTGATTTTTAATTG}$
	519851	${\tt CATCAACATTAAATAAAAATGAAGCGAACTATTTATCTTTAGAGTAGTT}$
	519901	${\tt AATTTGATCTCTTTAGGAAAAAGATCTAAGCTAGATTTCTTTTATCTAT}$
15	519951	${\tt TAAAAGATTCACTTAAAGCCAAATTTAGTTTTTAATTAAT$
	520001	CTTTATTAGCTAAAGAAAAATAATCATTTATATGAACTTCATAACTTTCA
	520051	${\tt AAAAATGAGGTATTATTTTTTTTTTGGATTAAATTCATCTATTTCAACATT}$
20	520101	ATTAACAATTACCCTTAATTTATCACCGCTTGATTTAAATCAAATATCAT
	520151	TAACATTTAAAACTAACTTTTTGGTTCTCATTTGAAAAAGATAAGTTCTT
	520201	${\tt ATTGCAGGAAAGTTTTTATTTTGTTCTAAGAAATACATCTTATCTTTAAT}$
	520251	GATTTCGCTATCATTTTTAGAACCCCATTTAGTTAAATCATTACTGTTAA
25	520301	${\tt TTATTTGTGCTGAAACATAGAATATACCATTTTTAACACTGGGCTTAATT}$
	520351	AAAGATTTTTTAATTAATTTCTCAGGATCTTTTATGTATTTTATTGTAGC
	520401	GGATGAAATATTTAAATTGTTTTCTTTTTGAGAAGTAAAACTATTTTTAA
30	520451	TTGCATATGTAATTGGTTCTCTTTGATAACTATTTAATCCGTTTTTTCA
	520501	ATGTCATTAACACTGAAATTTTTCTGATTTGTAACAATAGGAATTAAAAA
	520551	ATGATCTTTTAAAATATGATGTTCATTGTATTCAGATCTAAACTTTAAAC
	520601	TATATTGAAAACCATTTTTAGTTTTCTGAATAGAAGGCAAATTTTTAACT
35	520651	GACTTAAAAAAGAATCAACTGGTTGATTTTTTAATGTTCATCCTGTTTT
	520701	ATTCACAACAATAAAATCAAAAGTTAAAAACtCAATTTCATaAAAATTAA
	520751	TACCAGTTTGATCAGCATTTAAGAAATTTTCAACATCACTTAATAAAAA
40	520801	ACGTTACTGCCATTTTCTATAAAAGTAATTACTTTATTTTTTGCCACCTAT
	520851	CTTTATATTTATCGTGATGGTAGTATCTTTAAAAATACTTTTAATTAGGT
	520901	TGGGTAATATCCGAATAAAATTTAATGTTTTCTCTTGTTTTGGATTAATG
	520951	TTAATTAAATTACTTAAGAAAAATATTGCATCAATTCTTTCATCTTTTGG
4 5	521001	TTCAAAATCAAATTTAGATTCTTCCTGTTTTTCTAATAAATCTAAAGCAA
	521051	ATTGAAAAAAGTTTTATCTTTATTTGCTAATTGATCAAACTCTTGATTT
	521101	AGCTTACCTTACCATTTCAATTGCATTAGAAAATTGATCACTAAATTTCAG
50	521151	CTTTGGTGTTATTTTTGATCCTATTAGTTCTTTGTTTAAAACAGTAGTTG
30	521201	GATTAGCTATTAAAGAATTTGAATCAAATTCAATTTGGTTAACAATGATC
	521251	TTAGCAAGTTGATTTGTTGCTATAGTTAATTGATTTTGTGATTGAAAATC

		ATCTTTAACTAGATAAAGATTAGTATCAATCAACTTACTT
	521351	${\tt TGTTAGCAAATAATAAGGGAATTATCGCAAAGGAAACTCACTTTAAATAG}$
5	521401	${\tt CGTTTTCATGACATAATAAGCTTTATATTCCATAAATTAAATAAA$
!	521451	${\tt TTAAGTGACAGTTTTTTTACTAACGCTTAGTAAATTGTGGTGCACGTCTA}$
:	521501	${\tt GCACCATATAAACCAAATTTTTTGCGTTCCTTAGCACGCTTATCACGTGT}$
10	521551	${\tt TGTTAATTTTTGGTTTTTAATAACTTTTTAAGATCTGGATTAAATTTTA}$
	521601	${\tt TTAAAGCACGAACAATACCTAATCTAATGGCTCCTGCCTG$
!	521651	$\verb CCTCCACCTTTAACAACAACATTGATATCAAAGTTATCCTTAAGTTTGGT \\$
:	521701	${\tt TAACTCTAAGGGTTGTTCCATATCTTGAATCACCAATTTATTT$
15	521751	${\tt AATCGCTAGGATTACGATGATTAATGGTTATTTTACCCTTATCTTTGCTT}$
!	521801	TGATATAAATAAACTTTAGCAGTAGAAGATTTACGACGACCAAGTCCATA
!	521851	${\tt AAAAGATTTTTATCCATATCTTTAACTTCAATTAAGTAATGTTGGTTT}$
20	521901	${\tt TTGTGCTTCCATGTTGTGCTTATCATTCTTAAAAACATGTACTTTAGTTA}$
	521951	${\tt TTAATCTTCTGCTTAAACGATTATCAGGTAACATTCCCTTAACAGCATTG}$
	522001	${\tt AAAACAAGTTTATCTGAATTTTTGTTTATCATATCCCTTCCACTAGLTTT}$
!	522051	${\tt TTTAATTCCACCCATGTATTGAGAGTGATGATATCAAAACTCATTGTCTT}$
25	522101	TTTTATTTCCAGTTAAAACCACTTGATCACTGTTAATAATTATTAGATGA
25	522151	${\tt TCTCCACAATCTTGATTAGGAGTAAAATTAGCTTTATTTTTCCTCTAAT}$
!	522201	${\tt TAAATTTGCAGCTTTAACTGCTAATTTGCCTAAAACCAAACCACTAGCGT}$
	522251	${\tt CAACAAGATACCACTTCCTGTTTTTAATGGCTTCTTCCTTTGTAAGCATC}$
0 5 0 5 0	522301	GATGTTTTTTGCATATTTTAGATACAAAACCGCATTCTATTTTAATATT
!	522351	ATTACTTTCTTCAAAAAGTCCTTTAAAGTATTTATCCACCATTTTTTGT
!	522401	GATAAAGAGCGTTTCTTTTCTTTTAAAAAAGGCTTAGCTAAGTTTTCCAA
35	522451	$\tt TTGGGTTAAGTTCAACACTTCAGTTTGATACTTTTGATTTTTTTT$
!	522501	CAGTAATTGTTGTTTATATTGATGCTCACTAAAAGATGCTAAGAATAAA
!	522551	TTTTGGTTAAAAATCTGAAATATAGTTGCTTGTACATTACCTTCTTCTAT
4 0	522601	TGCCTCTTTTCAAAGTCTCATAGCAATTTTTTGATCTTCAAATAAGATAA
	522651	CTATCCCAAATGAAGAAGCTTTTACTATTTTGGTTGCTTTCACTATATCA
!	522701	CGAGCACTATATTTGTCTATAAAGTTATTGAAATAACTTAAATTATTCTG
!	522751	TTTATCTTTATCATTAAATTTAGTTTGAAAAACACTTAAAAGATTTTGAA
4 5	522801	AATGATTAATTCATTTATTGTCATTAAATGCATTAATTGCAAGAGCAATA
	522851	TTGGCAAGATTTAGTTTGCTTGTATCTAAGAATTTGTTATTAGTAACTTC
:	522901	ATCATTTTTAGGTGTCTTTTCTGATTTATCTATAAAAGATTTTTCAAATA
	522951	AAGAAAAGTGCTTTTGGTCTTGTTTGTGATTTTTTTTTT
50 !	523001	TTTTCCAAATATTCAGTTTCTAAGTGTAGAGATTTTTCATTACTTGGTGA
	523051	GCTTATTGTTAAAGGTTTTTGATTAAAAAATTCATTATAGCTAATAACAA

5	523101	${\tt TAGCTTTTAGCCTATCAATTAAAGTTAATTGACTTAAACCAAAATTAGTA}$
	523151	${\tt TTTTCTTCAATGGCCTTAATTAAAAACGCATAATGCTGCTTTTCAAAATT}$
	523201	${\tt AAGTGTTTCTATCATTGTTTTTCAGTTGAATCTAAAACATTAATATTTT}$
	523251	${\tt TTAGTTTTGCATACGCATATAAATTAACTGTTAGCGCAAACAACTCTCTT}$
	523301	${\tt AAGAAGTAAGTGAAATTTAGACCATTACTTTCAAAATCATCAAGCAAG$
10	523351	${\tt AAATGCTTCTTTATATCTCCTGATAAAACTGCTTTAATAAAAGTAAATT}$
	523401	${\tt TTGCATTTCTATCAACGATATTAAATGTTTTTTCAACATCAGTAATACTA}$
	523451	${\tt ATTTTTCACTATCAGAGAAATTGCTAATTGATCTAGTAAGCTAAGCCCA}$
	523501	${\tt TCACGCAATGAACCTTGGGATAAATCAGCAATTTTTATTAATGCATCTTT}$
15	523551	$\tt CTCTATCTTAATCTTTTCTTTTTTTGCTATATCATTTAATCTTTCAAGGA$
	523601	${\tt TTAAATCACTAGTTATTTTTTAAAAAAGAAGCTTTGACATCTGGACAAA}$
	523651	${\tt ATTGTTAATGGAATCTTGTTAAATTCAGTAGTTGTAAAAAATAAAAAGAAC}$
20	523701	${\tt ATAAGGTGGTGATTCTTCTAAAGTTTTTAACAAGCCACCCCATGATTGGG}$
	523751	${\tt TGGTTAACATGTGTGCTTCATCTAAAATATAAACCTTTTTTTAAATGTG}$
	523801	${\tt AAGGGATGATTGAAAACATTTTCTACCAACTCTCTAATATCATTAATACC}$
	523851	${\tt ATTTTTAGAAGCTGCATCTATCTCAACTATATCAATGGCACTATTAGTGT}$
25	523901	${\tt TAATACTTTTACACACATCACAACTATTACAAACATCAATTTGATCTCAA}$
	523951	${\tt TTTAAGCAGTTTATCGCTTTTGCTATTATCTTTGCAAAAGTAGTTTTACC}$
	524001	${\tt TGTTCCTCTTTCACCTGAAAAGATATAACCATTAGGTAGTTTATCCCTGT}$
30	524051	${\tt TAATAGCATTCACCAAGATTTTTCTTATCGATTCTTGTCCTAGGGTTTGT}$
	524101	${\tt TTGAAATTGATTGGCCGATATTTTTGATAAAAACTTGGTGCATAATTTT}$
	524151	${\tt TAAATTGAATCTGGTTTTAAAATTTTGGACAAATATTGGGCAGTATAAGA}$
	524201	${\tt TTTATTAACTTGGTTTATAAGTTGTTCAGGTGTTCCTTGAGCAACAATTT}$
35	524251	${\tt GACCACCATTGTCACCACCTTCAGGACCTAAATCAATGATATAGTCAGCA}$
	524301	${\tt ACCTTAATAATATCTAAGTTATGTTCTATAACAACTACTGTATCACCATT}$
	524351	${\tt CT}_{\overset{\centerdot}{,}}{\tt AATGATTCTTTGAATTATTGTTAATAGTTTGTTATATCTTCTAAAT}$
40	524401	${\tt GTAAGCCAGTAGAGGGTTCATCTAAAACAAACAAAGTTTTACCAGTAGAT}$
	524451	${\tt TTTTTTGTAAAAACTTAGATAACTTAATTCTCTGTGCTTCCCCACCTGA}$
	524501	${\tt AAGAAAAGTGACATTAATACCTAATTGCAAATATTCTAAACCAACATCAC}$
	524551	${\tt ATAACAACCTTAGTTTACGTGATATTTTGGGATAGCTTTAAAAAATTCA}$
4 5	524601	${\tt TAAGCTTCTTTACAAGACATTTGTAAAACATCAAAAATTGATTTTCCCAA}$
	524651	${\tt ATATTTAATTTCCAGTGTTTGTGAATTGTACTTCTTGCCATTACATACTT}$
	524701	CACATTTGACATAAACATCAGGTAAAAAATGCATTTCAATGCGAATCACA
50	524751	CCATCACCAAAACACTTATCACACCTACCACCTGGAACATTAAAAGAAAA
	524801	${\tt TCGTGAATTTGTATATCCTCTTGCTTTAGCTTCTTTTGTGTTGGCAAATA}$
	524851	${\tt AATCACGAATATCATCAAAAACACTAATATAGGTTGCAGGATTAGAACGT}$

5	524901	${\tt GGTGTTCTACCAATTGGGTCTTGAGAGACAACAATTATCTTATCAATGTT}$
	524951	${\tt GTTAGCACCAATTATTTCCTTATATGTATCTTTTTAACACCTTTACGAT}$
	525001	${\tt AAAGAATTCTTTCTAAAGCTGGAACTAATGTTTGATTAATTA$
	525051	${\tt TTTCCAGAACCTGAAACCCCTGTTATCAAAACCAATTTATTT$
	525101	${\tt GGTGACATTAATATTTTCAAATTATTAACTTTAGCACCCTTGATAATAA}$
10	525151	${\tt TTGTTTTACCATTACCACTATGTCTATTTTTTGGAATGGAGATTTGTTTT}$
	525201	${\tt TTACCACTAAGATATTGTCCAGTAATTGAGTTTGAGTTTTCCATTACTTG}$
	525251	${\tt TAAAGGTGTACCGCAAGCAACTAATTCACCACCTTCATTACCTGCTTTAG}$
	525301	${\tt GACCAATATCAATTAAATAATCTGCCGCTAACATTGTTTCACTGTCATGC}$
15	525351	${\tt TCAACTACTAATAAGGTGTTACCTAAATCACGCATTACCATCATTGTTTT}$
	525401	${\tt AATTAAACGCATATTGTCTTTTTGATGCAATCCAATAGAAGGTTCATCCA}$
	525451	${\tt TTACATATAAAACACCAGTAAGTTGAGAACCAATTTGGGTAGCTAATCTA}$
20	525501	${\tt ATTCTTTGTGCTTCTCCACCTGACAGCGTAGAAGCTCTTCTTGCAAGATT}$
	525551	${\tt AAGATAATCTAAACCAACATTTTTAAGAAAAGAAAGACGATTAATAATCT}$
	525601	${\tt CTTTTAAAGCTAATTCACCGATCTTCTTTTGCTCATCATTTAACTCTAGT}$
	525651	${\tt TTTAATAGAAAATCAATACTTTTATCAATGGAAAGTTCAGTAAAGCTAAT}$
25	525701	${\tt AATGTCAATTCCTCCTAACTTAACACTTAAAGCGTCTTTTATTAATTTTT}$
	525751	${\tt TTCCATGACACTTTTTACATGTTATTTCAGACATGTATGCAGAATATCAT}$
	525801	${\tt TCTCTACTTACTTGGCTGTTTGTTTCTAGGTGTCTTCTTTAATTAA$
30	525851	${\tt AGCTATCCCTTCATAATGCTCAAAGCGGATATTCTTAGCACCTGAATTGG}$
	525901	${\tt AAATTGTTTTATTTCAATAGGTTCATCACTTCCTTCTAAAATTAAATTA}$
	525951	${\tt AGTTGTGACTTATCTAACTGTTCAATTGGTTTATCTAATGGAATTTTATA}$
	526001	$\tt GTGATTAACTAAAGATAAAAAGCGCTGTCAATCCAAAGAAGTTCCATGCA$
35	526051	${\tt CAATATTTTAAAAATATCAATGGCTCCTTGGTTAATAGAAAGTTTAGAA}$
	526101	${\tt TCAGCAATTATCTTGTCTACATCAGGTTCATAACTAAAACCAAGTCCTTT}$
	526151	${\tt GCAATATGAACATGAACCTAAAGGGGGGGTTAAAGGAAAATAATCTTGGTT}$
40	526201	${\tt CCAATTCACTAATAGAAAAACCACATTTATCACAACCATGATTTTTGCTG}$
	526251	${\tt AAATTTAATATTGTTCCATCTTCCTTAAGAACTTCTATCTTGCCATTAGT}$
	526301	${\tt TAACCTATCAATGGTTTCAATGCTATCAACTATCCTTGAATAAGTTTGAT}$
	526351	${\tt TATCTTTATTGATGATAATTCTATCGATCACTACACTAATGTTGTGTTTA}$
45	526401	${\tt GTATTTTATCAAGTTTAATTTCATCATCTAAGGTGTAAATCTGGCCATC}$
	526451	${\tt AACTAAGACTCTAAGAAAACCTAATTGCTTGTATTTAATAAATTCATTTG}$
50	526501	${\tt TAAAAATGCCGCGCTGATTTTTAACAGTAGGTGCTAATAATTGCACCTTT}$
	526551	${\tt GATTTATTAGGTAAATCAAAAATCTGATTAGCAATTTGGTTAATTGTTTG}$
	526601	${\tt CGTTTGAATAGAACCATGACCATTAGGACAATAAGGGGTCCCAATTCTAG}$
	526651	${\tt CTCATAAAAGTCTTAGATAATCATAGATCTCAGTTACTGTACCCACAGTT}$

	526701	${\tt GAACGTGGGTTATGTGAAGTGGTTTTTTGATCAATGGAAATTGCTGGTGA}$
5	526751	${\tt TAATCCTTCTATAAGATCAACATCAGGTTTATCACTGTTACCTAAAAATT}$
	526801	${\tt GGCGTGCATAAGAAGATAGAGACTCTAAATATCTTCTTCTCCCCTCAGCA}$
	526851	${\tt TAAATTGTGTTAAATGCTAAGGAAGATTTACCTGATCCTGATAGACCAGT}$
	526901	${\tt AATAACAACAAATTGATTTTTAGGGATATCAATGTTAATGTTTTTAAGGT}$
10	526951	${\tt TATTTTCTCTAGCACCTTTAACCCTTATAAAATCATTATTTTTCATTCC}$
	527001	${\tt GGTTTCAAAGTCAATGTTTTTAATTGAAAAATTTTTAACTAAC$
	527051	${\tt TAGGATCATTGAAAATAAGCGCAATACCTTGTTTATTTTGATATGAGATC}$
	527101	${\tt AAAAGTCCACGAATGAAATTATAAGCGTGGTTAGTGAAATCATTGCAGCA}$
15	527151	${\tt GTTTATCATTAGTAACTTAGGATTTAACAAAAGTTTAAATAGCAAGTAAA}$
	527201	${\tt GCTTTAGACTTTCATTTTGTTAATTTTGTTTAAATCACTAAATAACATT}$
	527251	${\tt CAGCTGCTAATACCATTCTTTTTGGTTTGATTATCAATAAATTAATGTT}$
20	527301	${\tt GTTAATAAAGTTAAGTTTTTTAAGATTTTTTTGTGATCTTAAAAAGAAAT}$
	527351	TAATTGTTTTAATTGTGAATTCAAAACATTAAGATAAAGCTTATTTGAA
	527401	GCTTCTAAACGATTGATATTGCACTCTTCTGAATCAATAAAAAAAGTTCT
	527451	${\tt CTTAATTTTCTTGTTTGTTTTTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTGCAATGTTTTGTTTAAGTCTTAAGTTGTTTAAGTGCAATGTTTTTTTT$
25	527501	AAATACAATATCTTTTCATGATGAATTTAATCTTTTGTAACTTTTGATTT
	527551	GTTTCATCGCGAAAAATTCACTTAACTAAATTAATGTCTTTTAAAAGTAA
	527601	TTTGTATTTTTGTTTGCATTTTTTTAGCTTTTTGTTTTAGATCATTCTTGG
30	527651	TTTCTTTATTTGTTGTATCTGTTGTTGAAGAAAAACCGCGTGATGCTAAC
	527701	AGGAAACTAACAGGGGTTTCAAAATTTAGATCTAAATATTTATT
	527751	TTTGTCAACTAGAAAATTTCACTTTGGGGAGTTTAAATCATTTTTAACT
	527801	TATCTTTTAGCAAACTAAAATGTGGTTCACTACGTCCTTCATTTCAAATA
35	527851	AAATCATTAGAACCACAACTTAAAAACTCATATTTATTAAAGAATTGTTG
	527901	AAATTTTTTACTTAGGCTATTTCAAAGTGAAATAAGAACAAAATACAAGT
		TATTTAACTCATATTTTTGTCAGTTAATTTTTTGATAATTAGCTAATAAG
40	528001	CTTTCATAAAAATATTGCTTTATTTGAAATGCAAAGTTAAAAGTCTCCAA
	528051	ACTTTTTCTCATGCTGATTAAACCAATTGCATATtGCACTGTATCAATAA
		ACTGTTTGAAAACTGTTTTTTGGATTAGAACTGAAAAACTGTTATTATGC
		TTACCTCTATAATGATTTTGATTTAATAAGATGTTTTCTTTTAGTTCATT
45		AACCAATTTTTCATGAACATACAAATTGTTTGATTGTTTAACAAAATTTT
	528251	TAATAAAAGATAAACGTGCTTTGATCAAAAATTCATGAACCTCTTTTTTC
50		GTTAGAATGAAACGTGCAGACATTATTTTAAGTTCTTGATTAATTGTCTG
		GTACTTTCAGLTCAAATTAGGACCTGATTTTAAGCTGATAATTTCTTGAT
		AAAGATTTTGAATATTAGCAAAGATTTTATTGACTAAATTAATACTTTCA
	528451	TCAATAGTTTCTACAAGTAATTTTGGAGAAAGTAAATCCATTTTCTTAAT

	328301	[[CIIICAAAAGIAAAIICIIIIIIIIIIIIIIIIIIIII
5	528551	${\tt TTTCTAAAATTCTTTTTCTATAAAAATTAAAAAACTTCTT$
	528601	$\verb TTTCAACCACTAAAAATTAAAGAAAAGGTGAATGAATTAATT$
	528651	${\tt AGCATTTTATGTTGTTTTGAGAATGTTTTCTTAGCATCAAAAAGTCTTT}$
	528701	${\tt GTTTAGCTCTTTCAATTTGCAATTTTTCAAAATAACTGTTATCTCGTGAT}$
10	528751	${\tt TTAGCTTCATAAGCAGCTATTTTCAGTTTGTTTTTTAAGTTATTTTTTTG}$
	528801	${\tt TTCGTTCAATGCATAGTAACGCTCAAAAAAACTTTTTATTACTTTGTTAT}$
	528851	${\tt TAAAAGTAAATAATTGATTGAAAAACATGCAATTAAAATCAACAAGTTCT}$
	528901	${\tt CTTTCGTTTTTTCAATTAAAGTTAAAAAATTATTGTATTCAAAATCAAC}$
15	528951	${\tt TTGTTCAAAGTAGATTGAATTAATAAATTTTGATGTAAAAAACTGATTAA}$
	529001	${\tt TGACTTTACTAGTTTTTGATTAACATTTTCAAAATTGAAAAC}$
	529051	$\tt CTAAATAAATCATTAAGCGCATTAAAAACCTAAAAATCACTTTAACTGTTT$
20	529101	${\tt AGGTATATTCACTAAATTAAAGTAATTTTGATCTTTTTTATAACTTAAAT}$
20	529151	$\tt CTTGTTTTAGAAAAATGCTAAATGAATTAGGAAATAACCACTTATTTTTA$
	529201	${\tt TTTCTTAAATCTATCTCTTCACATAAATTAAACTTAATTTTTT$
	529251	${\tt TAAATATTGATGGTTATTAACAAGCAAAAACCCAGAATAGGGTTGTTTAT}$
25	529301	${\tt TTAACTGTAAAACTTGTGAAAGGGTTTTTCATTGTGCTTGATTTAAATTA}$
	529351	${\tt TCAATGAGATAGTTACCATACTTAAATAATGATAGCTTTGCAACCCCAAA}$
	529401	${\tt ATAGTTAGCATCTAAAAAGGAGGTACGAATCATTAATAATGACAAATCAA}$
30	529451	${\tt CCCACTGTTCTAGATTATCAAAAAGAGATATTTTCTTTAGCATGTACCTT}$
30	529501	${\tt TCAAATTTAATTGCTAATCTTTAAGGTACTTAAATAGAAATAATAGTTG}$
	529551	${\tt AAAGAATTAAGGGTGCTTTTGATGTCATCTTGGTGAATAAATTCATTACT}$
	529601	${\tt GCTCGTTTAATAGAAACCTTCAATTCTTTTGAAATTTCTTTACCTATTCG}$
35	529651	${\tt TTTTTTAATCGTGGTGAAATCCTTAATATCATTAATTTGTTTTTTAATTA}$
	529701	${\tt ATTCTTCCATTTTTGTTTTTAGTTTATCTTTTTCTGGTACATCTAAAGAT}$
	529751	${\tt ACTCCTAAAAAAGAATAAGTTATCTCATTTAAGAATTCACTCTTTTTTTG}$
4 0	529801	${\tt ATCAAAATAAATGATTATGATCACAACTCCAGATTCTGACATTTGATCAC}$
40	529851	${\tt GTTCAAACATAATGCTAGCTCCAATTTCTTGTAATCCAGCAGAATCAACA}$
	529901	${\tt CACTTAGGATTTAATTTCAATTCATTTTTTTTTCTATCTA$
	529951	${\tt TTCAATAGTTAAAACTTCACCGTTAAAAAGAATTAAGATTTGATTTTGCT}$
4 5	530001	${\tt CAGCGCCAGCTTGTTTAAAACCATTGTGAAGTTTATAAAATCCCTATAA}$
	530051	${\tt AGTCCACCAGTTGGAATAATATTTTTGGTTTTAAAGAACTAACT$
	530101	${\tt CTTCATATCTTCATCACTTGCTTGGATAGAAAGGATTTCTCTACCTAAGT}$
50	530151	${\tt TGTAATAACTAACTTCATTACGTGCAATATCATCAAGGATTTGTGCTTCT}$
50	530201	${\tt ATCTCTTCATAGCCAGCAACTTTAGGAGTCATAAAGATAAAAGTATCACT}$
	530251	${\tt CTTACGATAACGAATTCTTTCATCTTCGTTCATTCCAATTTTGAATAATT}$

	530301	${\tt TAGCATACAACTTATCAGGTGGTGAGGTGAGAACAACAATACTGTTGGTT}$
5	530351	${\tt GAATTGTTAATCTCCTCAATAGAAATGGTATTTAAATGCGTGTTATTAAA}$
	530401	${\tt CAATTTTGACGCACAATTGTGTTAAAGAGATGCACAAATGATTGTGAAT}$
	530451	${\tt AGATAATAAAAGGACGATTTTGCATCCTTGCAATCTGGGCAAGAGTCATA}$
	530501	${\tt ACACTGTAAGCATTTGAATCATAACAAGCTACAAATATTCTGCCTTTGGC}$
10	530551	${\tt TGGAGTTATGATCCTGTTTAACTGTTCTAATGACTTGTGTTTAGGTGTTG}$
	530601	${\tt TAAAACCACTGTTTCTACCAACTAAACCAACTCCTGTTATTAATAACAAT}$
	530651	${\tt GTATTGTCAGAAAGTTTAGGGGATAATTTGATTTAGTTGATTTTCAAAAGC}$
	530701	${\tt AATGTTCTTATCATTTAAAACAATGAAATCATCAATAAAAACGATGTAAC}$
15	530751	${\tt CATTATCAGTATTTAAAGCAAATCCAAATGATGATGGTAAAGAACLTGAT}$
	530801	${\tt ACTTTAAAAGGGGTAATAGAATGATTAGAAATTTCGATTGTTTCAAGTGG}$
	530851	${\tt TTTTAATTCATGAATTTCCAATTTATCACGTGCAATATTAAGTTTGTTT$
20	530901	CATTAATTTTGCTTTTAATTATAGAAGCGCCTATTGAACTTGTGTAAATA
	530951	$\tt GGAAAAAATCCTACTGTATGGaACAAAAATTCTAATGATCCTAAGTTTTC$
	531001	${\tt AGTAATGGCATTACCTATAAAAAATACCTTTAACTCTTGCTTG$
	531051	GAATTCAACTAAAATCAGGAATAATTTTTTTAACACCTAAAACTGCTGTT
25	531101	GTTGGTGTTAAGCTACCAACATTAAAGATAAACACATCATTGTCAATTTC
	531151	AAGCACATAGCAATTTTTACCACGTTCATCTTGACCGCCGAGCGCAAAGA
	531201	${\tt ATTTAATCTTAGCCATTTTTAACCCCGGAGGTTTAAATTTTTAATCAAAT}$
30	531251	CACGGTAGGTTTCAATATTACGTTCTTTTAGATATTTAAGTAGCCGTTTT
	531301	CTTTTTGATACCTTTGTATATAAACCACGCTTAGAAATAAAATCCTTTTT
	531351	${\tt GTTTGCTAACAGGTGGTCTGTTAATTTTTTAATCTGATCTGTTAATATAG}$
	531401	AGATTTGTACTTGCACACTGCCAACATCGTTTTTGTGAAGTTGATGAGCC
35	531451	TTAATGATTTGTTCTTTATCAATTTCATTAATTAATAAACACGTTGAAT
	531501	TATAACAAAATTAGAAAACGGCTCATTGCCAAGGTTAGAAGTAATAAATT
	531551	CTCCTACTTACTTATTACTTATAATAAATATAGTTTTTATTTA
40	531601	AAATTCTCTCGATATTTTCGATATTTAAATCTATACATCTAAACAAATTA
70	531651	ACAAAGCCATTTAACTTATGGACTCAACCTTTCATGAGCTTGGGATCTCT
	531701	CAAACTTTAATTGAAACGCTTAATGCGCTTCATATTAATAAGCCAACAAA
	531751	AATTCAACAAATCTCTATCCCTCAGTTTTTATCAGAAAAAAACTTAATAG
45	531801	TTCACTCGCCAACAGGAACTGGTAAAACTGCTGCTTTTGCAATTCCCATA
	531851	ATTGAGAAGCTATTAAAAGAAGATCAAACAGCAAAACCAACTTTAGTAAT
50	531901	TGCTCCAACAAGAGAATTAGTAGAACAGATTAAAACCACATTTTCAAATA
	531951	TTGCTAAAAATAAAAACTAAGAATTATTAGTTTAATTGGTGGTGTACCT
	532001	GCTTGAAAACAAATCAAAAAATCAAAACAAATCCCCAAATAATAGTTGG
	532051	TACTATGGGTAGAATTATGGATCTTTTAGAGCGTAAAGCAATTCATTTTA

	532101	${\tt GCGATTTAGAACACCTAATTATTGATGAAGTTGATTTAATGTTAGACCGT}$
5	532151	${\tt GGTTTTAAAAAAACAAATTTTTAATTTACTAGAACAAATCAATTCCTTTAA}$
	532201	${\tt ACAAATTGCTGTTTATTCAGCTAGTTACAACCAAGAAGCTATTAACATTG}$
	532251	${\tt CCAAGCAAATTACTAATAATGGGATCTTTATTGGATCACCTGAATTTAAT}$
	532301	${\tt AAAGACGCAAATACCAATAATGATAAACTAATCAAACAATTTGTTTG$
10	532351	${\tt TCTATTTCAGATCAAAAAAAGCAAGCTTTATACAGCCTTATAAAAACAG}$
	532401	${\tt CACAAGTTAAGTCAATCATTGTTTTTTTGTGACACTAAAAAACTAGTTGAT}$
	532451	${\tt GATCTTCATGTATTTTAAGAAAAAATGAATTAAGAaCTTTTGCACTTCA}$
	532501	$\tt TGGTGATAAAAAACAATTTATTAGAGAGAGAAATCTTAAAATCTTTGCCA$
15	532551	${\tt ATACAAAACAACCCACGATTCTAGTAACTACTGATCTTATTGGTCGTGGT}$
	532601	${\tt ATCCATGTTGAAGCAATCGATATGGTTATCAATTATTCAGCTTGTTTAAA}$
	532651	${\tt TCTAGAAGCTTATATAAATAGAATGGGAAGGACTGGCAGAAACAATCATA}$
20	532701	${\tt AAGGGACATGTGTAACTTTCTGCACCTCACAAGAAAAGAAAG$
	532751	${\tt AAAATGGTTGAGAAAATCACTGATAATCGAATAGCTGAATGTAAACAAAT}$
	532801	$\tt GGAAATAAAGTTAATTCCTTTAAAAAATAAAGCTAAAACTAAAAAAGGTG$
	532851	${\tt GTATTTCACTTGATTGTGTTCAGAAAATATATGCCAATGCAAAACCATAT}$
25	532901	${\tt GACCGTAATAAACGTGTCCCTTTAGCAAGTGATCTTTTCAAAAGTCGTAT}$
	532951	$\tt GCGCCAGCCTGAAAAAGCTATGCAAAAAGCAAAAAATTCATGACAATGACT$
	533001	${\tt GACAAAGTAATATGTAATAACAATTTATAAAATACTTGTATGGCAAAAAA}$
30	533051	${\tt AGACCAACTTACCTTAAGAGGGCCTTTGTATGGCAATAATCGTTCTCATT}$
50	533101	${\tt CCAAAACTATTACAAGAAGAAAATGGAATGTAAACCTTCAGTCATGCAAA}$
	533151	${\tt ATTAAAGATACTAATGGTAAAGTAACACGGATTCTAGTTTCAACTAAAAC}$
	533201	${\tt AATTCGTACCCTTAAAAAAACAAAATCGTTTCTAATTTAAATTTAAGTTAA}$
35	533251	${\tt ACTTAATCCATAAGCATATATGGATAAAAAATACGATATCACAGCTGTTT}$
	533301	${\tt TGAACGATGATAGTTCTATTAATGCAGTAAGCGATAACTTCCAAATAACA}$
	533351	$\tt CTGGATGCACGACCAAAAGAAAAATCTAAAGGCATTAATCCTCTGTCAGC$
4 0	533401	${\tt TTTTTGGCTGGTTTAGCTGCATGTGAACTGCTAATGCGATGG}$
4 0	533451	${\tt CAGCTGCTAAGATGATAACTTTGAACAAGGCACTGATTAACATCAAAGGT}$
	533501	${\tt TATCGTTTAACAAATCCTAGTGATGGTTATTTTGGCCTACGTGAACTTAA}$
	533551	${\tt CATTCACTGAGAAATTCACTCTCCTAATGAGGAAGAGAGAG$
45	533601	${\tt TCATTGATTTTGTAAGTAAACGTTGTCCTGCTCATAACACTTTGCATGGA}$
	533651	${\tt ACTAGCAATTTTAAGATAAATATTAGCGTTACTTTAGTCCACTAAAACTT}$
50	533701	${\tt ATTAAAAAAGCGAAAAATACCTGTAATTTTGCAGGTATTTTTTTT$
	533751	${\tt AAAAAGGATAAATTTAAGAAATTAAATTTCGCTTTAGCAGTCGATAATTG}$
	533801	${\tt ATCATATGAAAAATAATATTAGTGATGTAAAGTTGGGACTGTTAGCAGCA}$
	533851	${\tt AAAATTTATTGAAAATCTTGACGCTTTTTAGAGTTAACAGAAGATGACAT}$

	533901	${\tt TATCTCTATTGCACTTCATGCAGAGCAAGATTCTAAGAAGCGTTTTAATC}$
5	533951	$\tt CTGAATTTGGCTTAAGTTTTGACAACTATCTCAAATTAAATGGAGCAAAT$
	534001	${\tt TTCATTAGATCAAGTTTTAGAAGTATGGTGAATAAAGTTGAATTGCTTGA}$
	534051	${\tt TTCTAAAAGTAAATACTCATTAGAAAAGCAAAACACAGTTCTAAATACAC}$
	534101	$\tt CTGAAAACTATTTACGGAGTTTAGAATTTAAAGAAATTATTACTAAAGCT$
10	534151	${\tt TTTAATAAAGCTAAAAACGATCAAGAGAGAAAAGTTTTTTTT$
	534201	${\tt AAAGGGCTATAAAAACTTTGAGATAGCAAAAAAGCTCAATATTAGTCCTA}$
	534251	${\tt GAAGAGTGAGATATTTATTAGATCTTTTTAAAAGCTACATCAAATTGCTA}$
	534301	${\tt ACAGAAAGATATGGATATTAAATAAAGATATTTTTTTTTT$
15	534351	${\tt TTCTACTAGTTTTCTAACAGCACTATCACTAGTTAATTTCAATGCTTTTT}$
	534401	${\tt CAACTAATGATTACATTCATTAATTGTTATTTTAGCAATAACCATTCTT}$
	534451	${\tt GCTTTAAACATTGAACTTGCACTCATTGATAACTCTGTTAACCCTAAACC}$
20	534501	${\tt TAAAAGCAACGGTATTGCATATTGATCACTGGCCATTTCACCACACATTC}$
	534551	${\tt CAGTTCAAACATTATTTAATTTACCACCTTCTACAACTAGTTTAATTAA$
	534601	${\tt CGTAGTAATGCTGGATTTAATGGTTGGTATAGATAACTAAC$
	534651	${\tt CATCCTATCAGCAGCAAAACTATATTGGATTAAATCATTGCTACCTATTG}$
25	534701	${\tt AGAAAAAATCAACATGTTTTCCTAAGCAATCAGCTGCTAATGCTGCTGAT}$
	534751	${\tt GGAATTTCAATCATTATTCCTAATTTAAATTTCTTAGTTTCATTAAATTC}$
	534801	${\tt TTGTTGAACTTTTGTTAAAAGTTGCTTAACTTGAACTAATTCATCAAGAG}$
30	534851	${\tt TTGCAACCATTGGAAACATAATTCCTAAATTTCCATAATCAGAAGCTCTT}$
	534901	${\tt AATAAAGCACGAAGTTGGGTCTTAAAAAACAGCTTGTTTATCTAATGTTAA}$
	534951	${\tt ACGGATAGCACGATAACCTAAGAAAGGGTTATCTTCATGAGGAAATTGAA}$
	535001	${\tt AATAATTTAGTTTTTATCTCCACCAATGTCTAATGTTCTAATTATTACC}$
35	535051	${\tt AAATCATTTTAGCTTTTTGTAAAACAGTTTTATAAGCTTCAAATTGAAC}$
	535101	${\tt TGATTCATCAGGTCAATCTTGACTACTCATATAGAGAAATTCAGTTCTAA}$
	535151	${\tt AAAGACCAATTCCATTCGTGTTATACTCAACTGCTAAATCCATATCTTT}$
40	535201	${\tt ACATTACCAATATTAGAAGCGACAATAACTTCATATCCATCTAAGGTTTT}$
	535251	${\tt TACTAATTTATTGGTATATTGTTTTAATTCATTTTGAAAGTTGGATTCCA}$
	535301	ACTCTTTTCTTGTTTTCATTGAGTTATGTCTTTACTTGAAAAGTCAAAA
	535351	$\tt CCCACAATACCTTTTCTACCATTGATACCAACTGTTTTGCCATCTTCAAC$
4 5	535401	${\tt TTTACTGGTAATATTTTTAAACCAACTATGGCAGGAATTTCCATAGAAC}$
	535451	GAGCCATAATGGCAGCATGACTTGTTTTACCACCACTCTCAGTTAAAAAA
50	535501	$\tt CCCTTGACATACTTTTATTAAGAGTTGCTGTTTGACTTGGTGTTAAATC$
	535551	${\tt ATTAGCTACTATAATGACATCACTTTTAATCCTGATTAAATCATTAAGTT}$
	535601	${\tt TTACTCCAGTTAAATAACTTAAGAGCCTTTGGTGTAAATCTAATATATCA}$
	535651	$\tt CTGGCACGTTCTTTAAAATACTTATCATCCATTTCACTAAACATTAAAGC$

	535701	${\tt TGTTTGTTGAAAAACATTATCAACAGCAATAACAGGATGGAT$
5	535751	${\tt TTAGTTGTTCTAATTGCTCAGTGATAGTAGGATCATTAAGAATTTGG}$
	535801	${\tt ATGTGTGCATCAAAAATCATTCCTGCTTCTTGATTAATATTCTTAACAGT}$
	535851	${\tt AATTGTCTTAATCTCTTCAAGGTCTTTTTTGCTTTTTGAAAAGCACTGC}$
	535901	${\tt TTAAAAGCTTTTTGCTTGGGTGGGTGTCATTTTGACATTTGTGTATTTT}$
10	535951	${\tt TTAACGTCAAATTGAGGTGTTTGAATAATGAAAGCTTTTGCAACAGCAAT}$
	536001	${\tt GCCATCTGAAACACCAATCCCAATTATTTTTTTCATAGGTTAATTGTTAT}$
	536051	${\tt TTTTTAATAAGGATTTTGCAGTCATCTCTTTTGGTTTGCTAAGGTTAAGA}$
	536101	${\tt TATTCCAAGATAGTAGGAGCAATATTAGCTAAAATTCCAGTTTGATTAAA}$
15	536151	${\tt GTTAACATTTTGTCAGTACATACAAATGGTACAGGATTAATAGTGTGTT}$
	536201	${\tt TAGTAACTGGATTGTTATTATTATCAATCATCACTTCTGCATTCCCATGA}$
	536251	${\tt TCTGCAGTTAAAAACATAGTTATTTGATTAGCTTTACAAAAATCAACTAT}$
20	536301	${\tt TCGTTTAATTTGAACATCGAGTGCTTCAAGAGCTTTAATGCAAGCTTGAT}$
	536351	${\tt AGTTACCAGTATGACCTACCATATCAGGATTAGCAAAATTTAAAACAGTA}$
	536401	${\tt AAATCAAAGTTATTAAGCTTTTCTAGTAGTGCATCAGTAATAGCTTTACA}$
	536451	${\tt TGACATTTCGGGAGCTAAATCATATGTAGCAACTTTTAAAGAAGGAATTA}$
25	536501	${\tt ATGTCTTTGTTTCATTGCTGAGATTAACTTCAAAACCACCATCAAAAAAG}$
	536551	${\tt AAAGTAACGTGAGCATACTTTTCAGTTTCTGCAATCCTCAATTGCTTCAA}$
	536601	${\tt ATTATTAGCAATTACTTCACCAAGACTATTTTTAATGGTTTGAGGTG}$
30	536651	${\tt GAAAAGCAAATTCGCTAGGTACAATTCCCTCATAATTCATCATTGTTACA}$
	536701	${\tt AAAAATAAATTTCTTTTCGTTTCAATTCAGGTTGATAGTTGTAATAATT}$
	536751	${\tt GCTGTTAAAGATCAAATGGGACATTTGTCTTGCTCTATCAGGTCTAAAAT}$
	536801	${\tt TAAAGgaaattaactccatcattattgtttaatgcaaactgatcagaattt}$
35	536851	${\tt AAATTGGCATTAATTGCAGGATAAATTAAATTCATCAGTAATTTGGTTCTG}$
	536901	${\tt ATATTGCGTTTCAATATAACCAATTGGGTCATTGAATTTATTT$
	536951	$\tt CTCCTAATAAAGCTTTATAAGCAATCATTTCACGATCCCAGCGTTGATCA$
40	537001	${\tt CGATCCATTCCATAGTATCTTCCCCCAATAGTTCCAATAACAACATTAGG}$
	537051	ATAGTTTTTTAGAAATATCATTAATTTCTCAAGATCTTGTTTTAAGCTAC
	537101	AAGGTGCTACATCTCTACCATCACCAAATAAATGTAATACTACCTTTGCA
	537151	TGTTTTGAAAACAATTCAATGAGTGCTAATAGATGTTCATTATGACTATG
45	537201	${\tt CACTCCTCCATTGGAAAATAACCCAATTAAATGGATTTTTGAATGGTTTT}$
	537251	TTTCTACATGTTCTATGGTTTTTAAAAAAGCTTTATTTGCAAAAAAACTA
	537301	CGATCCTTAATATGTTGATTAATCAAAGAAAGTCCAGTATAAACAACTCG
	537351	ACCTGCCCCAATATTTAGATGACCTACCTCAGAGTTACCTATTTGACCCA
	537401	TAGGCAATCCAACTGCTTCCCCAGATGCATCTAAAAGTACACAAGGATAT
	537451	GAATTGATTAATTCATCTAGCATTGGGGTATTTGCATTTTGTACTGCATT

	537501	${\tt ACCATAAATAGCATTTGAGATCCCATAACCATCAAGGATTGCTAATAAAA}$
5	537551	$\tt CTTTTTTATGCATATACCCTAGCCATTTCTAAAAAGTTTTTAATTTCTAA$
	537601	${\tt AGATGCTTTACCAACTAAAAATCCATCAATTTGTTCCATTATTGCTAGTT}$
	537651	${\tt TTTGGATATTATGATCAACTGATCCGCCATATAGAATTGAGATATTG}$
	537701	${\tt TTAGCAACATTTCATCATATAAGTCATTAATATATTCCCTAATGGTTTT}$
10	537751	${\tt AATGGTTTGAACTTCAGGAGTTGCTGTTTTACCTGTCCCAATTG}$
	537801	${\tt CTCACAAAGGTTCATAAGCAATAACTAAATTTTTAATTAA$
	537851	${\tt ATCGTATCTAAGCAATTAGTAAGATCAGTTTTAAGAAAGCTAATCTCTTG}$
	537901	${\tt TCCTAAAGCCTCACCAATACATAAAACTACTTGCATGGATGCTTTTAGAC}$
15	537951	${\tt AAGCAAAGAGCTTTTGATTAATAACTGCACTGGTTTCGTTATAGTATTTT}$
	538001	$\tt CTTCTTTCAGAATGACCAATAATACTGTTGTTAACACCAATGTCTTGAAG$
	538051	${\tt TTGAGTAAAGCTTACAGTTCCAGTATATGAACCACTTTCAATAAAGTTAG}$
20	538101	${\tt CGTCTTGGGCAAATAAAAGGAGACTATCACTAATTATTTTTTTT$
	538151	$\tt GTGAGATGAACATAAACAGGTGCTATCCCAATTTTGGCATTGTAATTAAG$
	538201	${\tt TTTATTTGTTGAAATTGTTCAACAAAACTAACTGCGTCTTTTAAATTTT}$
	538251	${\tt TATTTGTTTTCCAATTGCCAATTAAATACCTTGTGCGCATATGAAAGATT}$
25	538301	${\tt TTATAAGTTTTC} {\tt AAAAACCATTTTCTTTTCCAACTAATTGATCATTAAGT}$
	538351	${\tt TATGACTTGTTTCAGTTCCATGTTTTGTTTGCTTATTGGTACGTCTATC}$
	538401	${\tt ATAGATATAGCCATCAAGCTTTTTAATAAAAGTAATGGAAAACAAAGCAT}$
30	538451	CACGATCAAACTTTCTCACATCTTCTAAAAGCTTAGCAGCTTTAATAAGC
	538501	AAACAATTAGTTACAAGCACTTGGGTTTTTTGGCGTGAATATCCTCCTTC
	538551	${\tt AGCTTCAAACATTGTGATTGAAAATCACTGTTGATTATCAAGTAGATAGT}$
	538601	TACGAATTTTTCTATGTGCTTACCATAAACTTCTACTTTTACAAATTGA
35	538651	TACTTAGGGAAATAAAAGAAGTAAATAATCCCAACACAATGTTCATCAA
	538701	TAGAGTAAAAACGAGGTTTGGAGATAAAAAGAAAGCAACTCCAAATGGCT
	538751	GGTGTTTATCATCACCAACATAAGATTGCACTGATAAACTACCAGTTAAA
4 0	538801	TAAGTACCAATTACATAGCCAATAATAAAGCTAACTGTATTAATTA
	538851	CAAAATTCCACCAATGTCTTTGTATTTTTTTTCAGAATATCAGAATGCTA
	538901	AAAAGTCAAGACCGCCTGTAGAAGCGTCAATAATTAAAATAACTGAATAA
	538951	AAAACTGCTTGTAAAAACCCCCCAAATAAGTCCATAAAAAAGTAAAGATAC
4 5	539001	TTGTTTTTCAGCAGATTTTTCTCAAAATATAAGTTGTACTCCCTTTTCAT
	539051	TAATTAAATTTCAAATCCACCATCTTTTGCTGTAGTTAAATTTGCAAAC
50	539101	AAAAAGAAGTTATCTATTCCAGGGATGTATGAAAAGAAAAAAACCAAAAAG
	539151	ATTTGAAACAGCTACAAAATAAAGGGTTAATAGGGTAAATTTTTTGGAGA
	539201	TTTTAAACCATCCAAAAATAAAGAAAGGAACATTAAAAAGAATTTGTGTT
	539251	AACCAAAAAATAGCATTAAATATAGTTGCTGAATCAACATTAATATTTTG

	539301	${\tt TGAAGTAATAAAAAATTAACAAGACGAGCTAATCCTTGGCTAATGGAAG}$
5	539351	${\tt CCATACCAATGTCATAAAGTCCTGAAAAACTGAACAAAAATAACACCAAGT}$
	539401	${\tt AATCCTCAAAAAAAAAGCAACTATTGTCAAAATTACAAGTTGTAAATAAA$
	539451	${\tt CTTTTTAAGGTTGTATATAGATTGAAACTTAAGAaATGATCCAGAAAGAT}$
	539501	${\tt GAATCCTTACAAAATTACCTGAAATTTTGATGTTTTATCTTTCATAGTT}$
10	539551	${\tt AAGAACAATTATTTAATAATTTTGGTAATTAATAATTTCTTATTTACTA}$
	539601	${\tt TCTTATTAGTAATATTAAGCTTAGTGCAATAATGGCAACGAAAATAGAGC}$
	539651	${\tt TAATAAAAGAATTGCGTAAATCAACACAAGCAAGTGTTATGGATTGTAAA}$
	539701	${\tt CAAGCTTTGGAAAAAAAAATAATGATGATTTTGAGAAAGCTGTTAAGTGATT}$
15	539751	${\tt AAGAGAAAATGGCATTGTTAAATCAACCAAAAAATTAAATAAGGTTGCAA}$
	539801	$\tt GTGAAGGAATTATTGTTTTAAAAAGCAATTTACACAAGGCAATTATGGTT$
	539851	${\tt GAGATAAACTCACAAACTGATTTTGTAGCCAAAAATCAAGAGTTAAAAGA}$
20	539901	${\tt ATTTTCAGATTTAATGCTTGAAAAAATATTTGAAAAAGTAAATCCAAAAA}$
	539951	${\tt CAGAATTAGTTGAAAATTGAAAAATTCAAATTAATGATGAAAAAGTT}$
	540001	${\tt AGTGAAAAACTAGCATTAATTGCTTCTAAAACTGATGAGAAAATAGTACT}$
	540051	${\tt TAGAAGAGTAGTTGTATTTGAAACTAAAACTAATCAAATTTTCACCTATT}$
25	540101	${\tt TACATGCCAATAAAAGAATTGGGGTAATTATTGAGATTCAAGGAAAACTC}$
	540151	${\tt AACGAAGATGATGGTAAGCATTTAGCAATGCATATTGCTGCTAATTCACC}$
	540201	${\tt ACAATTTATTGATCAAAGTGATGTTAATCAAACATGACTTCAAAATGAAA}$
30	540251	${\tt GAAATATTATCCGTTCCCAAGCAGAATTAGAGGTTAAAGaAAATCCTAAA}$
	540301	${\tt AAAGCAATTTTTTAGAAAAAACTATTGAAGGTAGAGTTAACAAATTACT}$
	540351	${\tt AATTGATACCTGCTTAATTAACCAAAAATACTTAATTGATGAAACTAAAA}$
	540401	${\tt CAATTGGTCAATTTTTAAAAGAAAAACAAGCTAAGGTTCTTAAATTTATT}$
35	540451	${\tt AGGTATGAAGTGGGAGAGGGGGATTATAAAGGAAACTGTTGATTTTGTTAG}$
	540501	${\tt TGAAGTAAATGCACAAATCAAACAATAAAATCCGCCAAAGAATAATCATT}$
	540551	${\tt AAACTTAGTGGTGCTGGGCTAACCAAAGAAAATTCTCAACCCTTTTCTAA}$
40	540601	${\tt TGATTTTTTGAAACTATTATTAATCAATTAAAAGTTTTAAAAGAAAG$
	540651	${\tt ATCAAGTAGGAATTGTTATTGGTGGGGGTAACATTATCAGAGGTAATAAT}$
	540701	${\tt TGCCAAGAATTTAACATTGCTGAATACCATGGTCATCAACTTGGTATTAT}$
	540751	${\tt AGCaACAGTAGTTAATGGCTATTTTTAAAAGCAAAGTTAGATGCACATA}$
45	540801	${\tt ATTTGAAAAGTGCTTTACTAAGTGCAATTAGTTGTCCTAGTTTAGCAGTG}$
	540851	${\tt CAAATTCTTTCACAGCAAACTATTGATAAAGCTTTTGAAGAGAATGACTT}$
	540901	${\tt TGTCATTTTTCAGGTGGCACTGGTAATCCTTATTTTTCCACTGACACTG}$
50	540951	${\tt CATTAGCTTTAAGAGCAGTGCAAACAAAAGCAGTTGCTATTCTGATTGGA}$
	541001	${\tt AAAAATGGTGTTGATGGTGTTTATACAGCTGATCCTAAAAAAAGATAAAAA}$
	541051	${\tt TGCAACCTTTTTACCAACACTCAACTATGACCATGCCATTAAAAATGATT}$

	541101	${\tt TGAAAATTATGGATATTACTGCTTTTACTATGTGTAAGGAAAATAATCTG}$
5	541151	${\tt AAAATAATTATTTTAACATTAATGCTGAGAATGCATTATTAGATGCATT}$
	541201	${\tt AAACAAAAAAGGTCGCTTTACTATAATTGAAAATAACTAATGACAAAAGC}$
	541251	${\tt ACATTACATTGATTTTTTAAACAAGCAGCTGATAAAAAAATTCAATGAT}$
	541301	${\tt TAAAAGAAGAGTTAACAAAGATTAGAACAGGTAGGCCAAATCCTAAAATC}$
10	541351	${\tt TTTGATAATCTTTTGATTGAAAGTTATGGACAAAAATGCCTTTAATATC}$
	541401	${\tt TTTAGCTCAAGTGACTATTAATCCGCCAAGAGAAATAATCATAAAACCAT}$
	541451	${\tt TTGATCCTAAGAGTAATACTAATGCTATTTACAGTGAAATTCAGCGGGCA}$
	541501	${\tt AACATTGGTGTTCAACCAGTTATTGATGGTGAAAAAATTCGTGTTAATTT}$
15	541551	${\tt TCCCCAAATTACTCAAGAAACTCGCTTAGAAAATATTAAGCACGTTAAAA}$
	541601	${\tt AAATAATAGAGCAAATTTATCAAGAACTGAGGGTTGTAAGAAGAGATGCA}$
	541651	TTACAAATGATTAAAAAAGATAATCACAATGAGGATTTAGAAAACTCTTT
20	541701	AAAAGCTGAAATAGAAAAATTAACAAAAATTATTCTAATCAATTAGAAG
	541751	AGATTCAAAAAGACAAAGAAAAAGAATTGCTAACAATTTAAATGAATG
	541801	AAAGCAAAACAATTCATCAAAAAAGCGAACTTCAGTATTCATTGCTTTATT
	541851	${\tt AGTTGTATTTTGCTTTTLCTTTTAATTAGCGCATTTGCTGATGGTTTTAA}$
25	541901	CTTTTGATCACCGTGATCAGCAGATTTCAATTCAAGAACATTAAAAGTAG
	541951	AACAAGCAAGTGGTGTTACTAGTGTTATTAGTACTGAGATTAATGAAAAC
	542001	TTTAAAGCTGTTCGTTTCAGCTTTAGCATAATCATTATTTTAATTGTTGG
30	542051	GGTAATTGGTTCTCTGATGATTTGAGAGTTGTTCACAAACATACTAAAAA
	542101	ATAAACCAAAACTAAGCTTAAGTTTAACGTTGTTAAATGCTGGAATAATT
	542151	ATTTTTGGGATGATTGGTACTTTTGTTGTTGTTTATTTTTACAAATGAAA
	542201	TGCAACTGTTAATGGTATTTGAACATTAAGTTTTACTCTTTCTGTGGTTT
35	542251	TACTTTGAATAATTTACATTGCTTGCATGAGTAAAACAAGAATTAAGTTT
	542301	AGCTTACAACTTTCATATAGCTTAGGAGCTATTGCTTGCT
	542351	CATAGGTACTATTTACTTTTCTGTTATCAGGGGTTGAACTACAATCTTTT
4 0	542401	TATTGATGAGTTTAGCAGTCAGTGTTGATACATTTCCTTTTCTTTTTGGA
	542451	AAGCGCTTTGGTAAAAaTCCTTTAATTAAAATTTCACCATCAAAAACATG
	542501	AGAAGGAGCTTTTTTTGGCATCATTAGCACCATTGTTGTTGTCGCTTTAC
		TTTGTGTTTTATATTCAATTCCTTTCTTTGTAGCAAAGCCTACTTTTAAT
45	542601	CAAACAAATGGAATAGCGCTCAATACACCCCAAAATTATGATAGCCATAA
		TCTTATTACCAATATTTTTTTAATTGCCTTTATCTCTGGAGGAAGTAGTT
		TTTATATCTACTGGTGGGTAAGCACTTTAGCTTTAATTTTTACAGGATCT
50		GTTTTTGCAATAGGCGGTGATCTTTTTTTTAGTTATATTAAACGCTTAAT
		TAGTATCAAAGATTTTTCTAAGGTTTTAGGTAAACATGGGGGAGTTTTAG
	542851	ATCGATTTGATTCAAGTTCTTTTTTAATTAGTTTCTTCTTTGTTTATCAT

	542901	${\tt TTAATAGCAGGAACCATTTCCAACCAAAGGTTGTTGATGGAACCTAATAC}$
5	542951	${\tt TTATTTCAGTGCAATCACTAGTATTCAAAGCTAGTATTTAGAATTAATAA}$
	543001	${\tt AGTATGACTCCAAAACTAAAGCTAAATAACAACATAAACTGAACCAAAAG}$
	543051	${\tt AACAATTGATTCTTTGTTTGATTTAAAAAAAGGTGAAATGCTTGAAAAAG}$
	543101	${\tt AGTTAATTACACCTGAGGGAAAATATGAATATTTTAACGGTGGTGTAAAA}$
10	543151	${\tt AATTCAGGAAGAACTGACAAGTTCAATACTTTTAAGAACACTATTAGTGT}$
	543201	${\tt AATTGTTGGTGGATCTTGTGGTTATGTAAGGCTAGCTGATAAAAATTTCT}$
	543251	${\tt TTTGTGGTCAAAGTAATTGCACATTAAATTTGTTAGATCCGCTTGAACTT}$
	543301	${\tt GATCTTAAATTTGCTTACTATGCTTTGAAATCACAACAAGAAAGA$
15	543351	${\tt GGCTTTAGCTTTTGGGACCACGATTCAAAACATTAGAATTTCAGATTTAA}$
	543401	${\tt AAGAATTGGAAATTCCTTTCACATCAAATAAGAATGAACAGCATGCTATT}$
	543451	${\tt GCAAATACTTTAAGTGTTTTTGATGAGAGACTAGAAAACTTAGCTTCTTT}$
20	543501	${\tt AATTGAGATTAACAGGAAACTAAGAGATGAATATGCTCACAAACTCTTTA}$
	543551	${\tt GCTTAGATGAAGCTTTTCTAAGTCATTGAAAACTAGAAGCATTACAAAGC}$
	543601	${\tt CAAATGCATGAAATTACTTTAGGGGAAATATTTAATTTCAAAAGTGGTAA}$
	543651	${\tt ATATCTAAAGAGCGAGGGAGAGTTAGAAGAAGGGAAATTTCCTTATTATG}$
25	543701	${\tt GAGCGGGAATTGATAACACTGGTTTTGTAGCTGAACCTAATACTGAAAAA}$
	543751	${\tt GACACAATTTCTATTTTCTAATGGTTATTCACTAGGTAACATCAGGTA}$
	543801	${\tt TCATGAAATTCCTTGGTTTAATGGCACAGGTAGCATTGCATTAGAACCCA}$
30	543851	${\tt TGAATAATGAAATCTATGTACCATTCTTTTACTGTGCTTTAAAGTATTTG}$
50	543901	${\tt CAAAAAGATATTAAAGAAAGAATGAAAAGTGATGATTCACCTTTTTTATC}$
	543951	$\tt CTTAAAACTAGCAGGTGAAATTAAAGTGCCTTATGTTAAGTCATTTCAAC$
	544001	${\tt TGCAAAGAAAGGCAGGAAAAATCGTCTTTTTGTTAGATCAAAAATTAGAC}$
35	544051	${\tt CAATATAAAAAAGAACTAAGTTCTTTAACAGTGATTCGTGACACTTTGTT}$
	544101	${\tt AAAAAAATTATTCCCCGATATGACTGAAAGAACTAAATCTATTAAGGATT}$
	544151	${\tt ATTAATCAAAAACTTAATTCTTTCTTTCTAAAATTACTTTAATATCTCTT}$
4 0	544201	${\tt TTCTTGCAAAATTAGATAATCTTTTCACACCAATTGAATAACCTGATTCA}$
4 0	544251	${\tt AAATATCCACCATTATTTTGATAGATAAAATTAACAAATACAAAAATTTA}$
	544301	$\tt CTTTCTTTATTTTAATTTATCGATAAACAGTTCTTACAGCGCCAATATT$
	544351	${\tt AGTAACACTTTTTTGGTTTAGCATTTACTTAATTTTTAGTTTCTTTAAC}$
4 5	544401	${\tt AAATTGAATTGTTATAAAAATGCGATTATTTTCTTGGATTTTAACTGCTT}$
	544451	AACTTTTTTTTTTTTTTTTATTTTAAAGTTAACTAATAGAAAAGTATTTATCTT
50	544501	$\tt CTTTAGTTTTAAGATCAAAATATATCAGGTTTTATTTTTAAAAAAATTAA$
	544551	AAAATCTTATTAAAGCAATGTGTAATAAAAAAACGGTAAAAGATCGATTG
	544601	ACTTTCCCTTAAAAGTTCTTGTTCTAATTTTCTTCACTTGTTCATTTGTT
	544651	${\tt GAAAGTAATAAATTCAACTTTTCATGAGAAGTACTCATGTCAATTTTGAT}$

	544701	$\tt ATCAAAAGGAAAGTTAATTGAAGCAGGTATACTACTAAAAGTACTTTCAC$
5	544751	$\tt TTACCCTCCTATTATCTGTTGGAGGAGTATAAGTAAAGATAACATCACCA$
	544801	${\tt TCAAAATTAGCTTTATCACCAGTAAAATCACTTTCACTTACACCACTTGT}$
	544851	${\tt ACTAGCTAAAAAGGATTTGATTAATGAAGTACTAGTATTGTCACTACCAA}$
	544901	$\tt CTATACCAGTCATTTTAAGTGAATTTGAACTTTAAAATCTAAGTTATTT$
10	544951	${\tt TTTCAACTGTATTGAAAATTAACTACCTTTTGACTTTTAACTCCTAAAAC}$
	545001	${\tt TAAGGCGATTTGACCACTTATACCTGGATAAGTTTCATCAAAATATAAAC}$
	545051	$\tt CTTTTGCACTGATGTTAGGAGTAACATCTTCCTTTGATTTATTAACTCCA$
	545101	${\tt AATGCTTTAGCAAATCTGCTATAATCAAGTGGTTTTTCTAATAGTTGATA}$
15	545151	${\tt ATCTAATAAAGTTGTTTTTCAACTGGCAAATACAGTATTAATTA$
	545201	${\tt CCTTATCAGAACTATAACCCTTTTTTAAAAAAGTAACAGCATTATTTTT}$
	545251	${\tt GAAAGTTCTATATTGTTTCTCTGAAAATAAGCTTGTGCTTTTTCTAAACC}$
20	545301	${\tt AGGATCAGTTGATGAACAGGCTACAGATAAAGTACTAAGTGAAATTAATG}$
	545351	$\tt GTAATAAAAAGATCTTTCTGAGTTTCATTACAAAATGGAATAAAGCACAT$
	545401	${\tt ATGGTAAAAGATCGATAGTTTGATCTTGGAAGTTTTGATCAGCTAATTGA}$
	545451	${\tt CCTACAAAATTACTTTGTAATAACTTTTGCATCAATTCATCTTTACCAAT}$
25	545501	${\tt AATTTGTAACCTTAAATTGGTATTAAAATTAATTTTCTCAATAGAGTAT}$
	545551	${\tt CAAAACTAGATTTGGAAAATAAATTACTGGAAGGTGGAGTATAAGTAAAA}$
	545601	${\tt ATTAAATCAGCTGAAATAGAATTTTTATCTTTTATATCACTATCACTTAA}$
30	545651	${\tt TCCTATTTGACTCAAATATGATTTTGCTTGAGCACTGTCAAAAGTTCCAG}$
	545701	${\tt TAGCTTGTAACCTTATTTGGACTTTGAAATCACGAGAACTGTTATAGTAA}$
	545751	${\tt AAACTAAAATCTGTAACTGTTTGACTACTCAATTTAATTACATTATTAAT}$
	545801	${\tt AATACTTGCAACATTTTGCGTGTATCTTTCAACTAAACGTAAGCCTTTAA}$
35	545851	${\tt CACCAGTGCTCGGTTCAACATCTTCCTTACTCTTACCACTGCCAAATGCT}$
	545901	${\tt TTTACAAATCTACTTGGGTCTTGTTTTTCAAGAATCTTTTCGTCTTGCAA}$
	545951	${\tt ACTAAATCTTCAAGCATCTAATAGAACGTTTGTAGCACTTTTTGAATCCA}$
4 0	546001	$\tt CTTCAAAACTATCTCTTAGTGAAGTAACTAACTCTTTGTCTTGATTT$
	546051	${\tt AATTCACTATTTTACTGAAACTATTTCTAAGTtGGTTTAAACTGGAAAA}$
	546101	${\tt ATTTGTTCCACTGCTTAAGTTAGAGCCTGTAATTAAAGAACCTAATA}$
	546151	${\tt CCATTAAAGAAGAAATGATGCCAGCTTTTGTTCAAAATTGTTTTTTAA}$
45	546201	${\tt CATTGTTTAAGTTAACAGATTTLCTTATTTGTAATTTTTTGATCATTAAT}$
	546251	${\tt AGAGGTAAACTTCAACAACAATCATTTAGAAGTTTTGTTTCTATTTTAT}$
	546301	${\tt CAATTAACAAATAGAAGGTTTCTATACTTAAAAAAACAAAAATAATCACT}$
50	546351	${\tt TAATTTTGAATTAATAACTTCTTGTTCTTGCAAGCCTAGATTATTGACAT}$
30	546401	${\tt GAAACAGTTTTACTGCTTGAAAAGTTTCATTGGAAATCGATTCTCTACTT}$
	546451	AATCTAATTCCAAGATTTTGAATTTGTGTTTTTATAAAAAAATGAATATT

	546501	${\tt AGCAATTAAGTTTCAAACTATTTCTGTTTTTTGAAAAAGTCTAACTAA$
5	546551	${\tt GATATAAAGAAGTCTGATTAAACAAAAAATGCTTAAATCTTTTTCCAAAG}$
	546601	${\tt TTTCTAAATAAAACTAATATTATTTTTAAACAAAAAAGAAACAGTACAAA}$
	546651	${\tt AAATGCAAATACTGATGCTTTTAAACTAAATTTAGATCTAAGAAAACTAA}$
	546701	${\tt CACTCATTGCGTTTTAAGCAAACTAAAAACAACAATTAAGAATGATTTTT}$
10	546751	${\tt CAAAAGTTGCAACTATAATTTTAAAACTTTTATTGATTTCTTTTGTATTA}$
	546801	${\tt AAAACATTTGCACAACTTACTCTAAATTAATATCTTTTTACTAATAATAA$
	546851	${\tt GAGATTTTTTAAAACTAATGGAATTACTAATTAAGTTCATAACTTAATT}$
	546901	${\tt TGCCATATTTCCCATTAATAAGTTCATTAATAAAAATTTCACATGCTAAG}$
15	546951	${\tt TTAGTGTTTAGTTCATTAGCTTTCTTAATTAAGCCTCTCACTTTAGCAAA}$
	547001	${\tt TTTTTCCAAAAAGTTAATAAAGCTATCCGCTTCAAATGGTAAAAGCTGTT}$
	547051	${\tt TGTAATGTTTCTTAAGATAATTAAAAGCAAACATTCCCACTTCTTCTATA}$
20	547101	${\tt TTAACTACTTCTCTAATAACATTAGTCAAAACTAGTTTATATCCAAT}$
	547151	${\tt TtGAATTCATCAATTCTTTCAAAAAAACTCCTGGGGTAtCACTTAATA}$
	547201	${\tt ATAATTCAGGGCTAATTTGAATCCAATTTAATGATTTAGTAATACCAGCG}$
	547251	${\tt CGGTTAGCTACTTTTAAGTGATTTTTTTTTTTTATCAAAAGGTTAATTAA$
25	547301	${\tt AGATTTACCTACATTGGGCATGCCAATAACTGCTAATCTAAATTGTTTGA}$
	547351	${\tt TTAATAAGCCTTTTGCTTTTAATTGTTGTCTTTTATTTGCAAATAAAGTT}$
	547401	${\tt GTTAATGTCTTTAGAACTTTTTTTTTGAGTTTAAAAGGTTCTTTTAATGA}$
30	547451	${\tt ACCAAATAAGATCTTTTTTTTTGGTTTGTATTGTGCTAAATCTGTCTTTA}$
	547501	${\tt ATGCCAGTATTAATTTTGGTTTATTTAAAAAAATAACTAATTATTTCTGAA}$
	547551	${\tt TTATGAGTTAAAGTTGGTGCTCTAGCATCTACTATCTCAATGATGCCATC}$
	547601	${\tt AATTTGACTAGATAACTTTTTTAATTGATCATGGATCTTTTTCATGTGAC}$
35	547651	${\tt CCGGGAACCAATTAATTTTGGCGGAGGTATATGTGTCCATCTATTCCCCT}$
	547701	${\tt GATTCTTGTAATAGATACCAAACAATCCTTGTCAATTTGTCTAATAATCT}$
	547751	${\tt TAATTAAATGGGGAATTTCTACATACATGGAAACAGAAACTATCATCTTC}$
40	547801	${\tt TTTTTGAGTAAAGAATAACCACCAAGCGTTTCTTGAATAGATAAACTGTG}$
	547851	ATTAGCATTATCACTTAACAATGCTTTTCTAACTTCTTCAAGCTTATCAG
	547901	${\tt TAAATACTTTAATTTCAGCAAAATTATAACGAGGGAAAAGATAACTAAC$
	547951	ACTGTTCCTGTTAACAAAATTGAAAAAAAGTTGCAATTAAATTAGGTGA
45	548001	GAAAAATAAACTAACTTCCCAAGCAGAATCACGATAATTATTGACATCTT
	548051	GCAACAATAAACTACCAGCAACAAAAGAACCAATTAGAATAGCAATAATC
50	548101	AGAATAAAACTATTTACATAAAAAAGAATTGATCCTACTGATCTATTTTT
	548151	CTTACGAGCATAATATTGGGTTAAGAAGTCCGCTCCCCCAGCAGAACCAC
	548201	CTAGTATGTAAAGTAATGAAACTGATATGCCATTATAAAAACCATAAATA
	548251	GCTGCATAAATAAATGTGGAAATAATTACATTACCTTGGGAAGTATCACT

	548301	${\tt TCATAAAAAAGGGACAAAACCGGCACTTGATTAAATCTTTCGCTGCTT}$
5	548351	${\tt TTCAAAAGTTAGTATCTGTTATAGAAGCTAACATTGGTGGTAAATTATCA}$
	548401	${\tt GAACCTGGAATAATACTGATTAAAAAACCAAATACGTTAGATGCAACAAC}$
	548451	${\tt AAAATGGGTTGAAAGAATAGTAAAGTTTTTACCTATTTTTTATAAGAAA}$
	548501	${\tt AAATAATTAAAGGGATGTTGATAAAGGACATATAAAAGCCAGTAAAGGATG}$
10	548551	${\tt TTAAAAATTAATAATCTTTGAGTTTCATCAAAACTTTTTAACAAAACAAA}$
	548601	${\tt CACTAATCTAGCAAAACCTTGAGTTAAAGAACTAATTCCAAAGCTATATA}$
	548651	${\tt AACCTGTTTTTGAATAAAAATAAGTAAAAGAAAAGCATTAATAATTGAT}$
	548701	${\tt AGTAAGTAAACTAATACATACTTTAATGGTTTTTTAGCCTCATAAAGATT}$
15	548751	${\tt GCTAAACATCAAAAAAGAGTTAGAAATCCTTACGCGTTTAGAACCAGATG}$
	548801	${\tt CGACTGTTATCTTTGATTCTTTTTAAATAAGTTGTTAAAAAATTTCATT}$
	548851	${\tt TGTAACAAACTTTTTTAAGACTTTTTTTTTTTTTTTTTT$
20	548901	${\tt AGATCTTTCACGCATATAAGAGATGTATGCTCTTACTTTACCCCTGC}$
	548951	${\tt GTTTTACTTCTATGTCTATATTAGGGTTGTGGATTTGAAAGTTTTTTCA}$
	549001	${\tt ATAGGAATTCCATCAGTGGTTTTLCTTACCATGAAAGTTTCGCTAATCCC}$
	549051	${\tt TCTTCCCCTTCTTAAAACAGTTCCAGTGAAGTTTTGAACTCGAACTT}$
25	549101	${\tt TTTCTTTTCACGTAACTTAATAGCAACATTAACTTCATCTCCTGCTCCA}$
	549151	${\tt AATTCAGGAACATATTCCTTTAACTGTTTTTGTTCTACTGCATCAATTAA}$
	549201	$\tt TGCTTGTTTATTTTTTTTTTTTTTTTTTTTTTTTTTTTT$
30	549251	${\tt AAATCAGGTCTGTATTTTGCAGTTTTTAAGATTTGCTGTTCTTTACGAAA}$
	549301	${\tt TGATTCAATCTTTTGGTGATCTCCTGAAAGTAAAACTTCAGGAACTTTAT}$
	549351	$\tt CGCCTTTTAAATCGTATGGCCTTGTATAAACAGGAAAATCTAATAGATTA$
	549401	${\tt TCATTGAATGATTCACAAATAAGACTCTGATCATTAATAACTCCTTTAAT}$
35	549451	${\tt TAATCTAACAGTAGCATCAATAACACTTAGTGCTACAAGTTCCCCACCAC}$
	549501	${\tt TTAAAACAAAATCACCTAAAGAAACAATTTGATCAATATTTTATAAATT}$
	549551	${\tt CTTTGATCAAAACCTTCATAGTGACCAGATAACAAAATTAAGTGTTCGTA}$
40	549601	${\tt TTTTGTAAGTTTTTAGCACAATTCTGAGAAAATTGTTCACCTTCTGGGG}$
	549651	${\tt AGAGTAAAACTACATGAGAATTTGGGGCTTTATAAAAATTTAAACAATTA}$
	549701	${\tt ATAATAGGTTCAGCTTTTAAAACCATGCCACTTCCTCCACCATAAGCCAT}$
	549751	${\tt ATCATCCACAGTTTTATGTTTATCATTGCAAAAATTTCTTCAATTTACTA}$
4 5	549801	${\tt CTTCAAATTGAACTAAATTTGCTTTTTGAGCTTGTAACATAATAGAACTA}$
	549851	${\tt TTTAAGTAAGGCCAAATAGTGTTTTCAAAAAGTGTTAAAACAGTGATTTT}$
50	549901	${\tt CACTACTTTTAGGACTTGTTTCTTTCTTATTTTACTTTCAATAAATTT}$
	549951	$\tt CTTCCACAAACCAGATTCACTAAATAAAGAACGGACTGTATCAGTTGGAA$
	550001	${\tt TTGCCCCTTTATTAAGTCAATCTAAGGCAACAGTTTCATCTAATTTACAC}$
	550051	${\tt TTATTTTCCTTTAAAGCTGGATTTAGATGTCCAATTAAAGCGATATACTT}$

	550101	${\tt TCCATTACGCTTTACTCGCGAATCAACCGCTACTATTCTATAAAGCGGAT}$
5	550151	${\tt AGTGTACTCTTCCCATCCGCATCAATCTTATTTTGACCAATGATTTTTTT}$
	550201	$\tt CTTAATAAAGCGGCTAATTATAACTTTTTAAAGTTCTATTTTATCTATGC$
	550251	${\tt TTAAGAATAACTTAATCAGCTATTTTTTTTTTCGTCTAGTTAATAAATTTA}$
	550301	${\tt ATCATCCAATAAGGCCCGATTTTCATTTTGCATGTCATCTGCAAACTCAT}$
10	550351	${\tt TATTTTTTAGATAAATAAGTTCTTATCTTATATCTAACAAAGTCTTAA}$
	550401	${\tt TTATTTTCTGTTGTTTAGCATATTATTTTAAGGCGTTAAACTTGTTTTCA}$
	550451	${\tt GAATTAATGATGAAATAGTTGTTTTGCTATTCACAATAGCAAAACTTAAA}$
	550501	${\tt TTTGAATTATGTTTTTTTTTTATTAATCTGTTCAATATGTTCTTCTCAAAT}$
15	550551	${\tt TAACCTATATTTTATCGGTTAATTCTTTTTAATTTCATATAAGTAGAT}$
	550601	${\tt TAATGTAGTTCCACTATTAACAAATTTTTGTTTATTTTTAAGGAATTCCA}$
	550651	${\tt ATAGTTTTGTCACTTTCATTTGGGAGGAGAGATTTACCATTTTTAATTG}$
20	550701	${\tt AATTAATTACAAAATTTTTTTTAACAAATAATTAGTTGTTTAATAATCGA}$
	550751	${\tt AATTATTAATTAGTTTTTTTTTTTTTTTTTTTTTTTTT$
	550801	${\tt TTATGAGTACTTTTCAATAAATTTGACCAACTTATTTTGTGGTGGATTAG}$
	550851	${\tt CGAAATATTTATCCATAAACAGATTAGTGTGAATTTGACCAAAAGCAATA}$
25	550901	${\tt TTAATTAAACCTGCTAAGGCAGCATTTGCAGTTAACAATCAAATAAAAAC}$
	550951	${\tt TTCAATGTTATTTGTTTGAAGTGTTATTGCTTGAAAAATAAAAAGTAAAG}$
	551001	${\tt GAATAAATACAAACAATCCGTGTGTTAAAGAGACAATTCAAGAATAAAGC}$
30	551051	${\tt ACTCTGTTAGTATTTTGAAAATATTGTTGACTATTAGCGCCTGTGGCTAC}$
	551101	${\tt AAAGAAAACTTGTGCTTGCACTATTAATGAAAAGTAATTTGCTAAATCCA}$
	551151	${\tt AATTTtGATCTGAAACATCAAAAAACTAGATAAGATCTGTTTTCCAAAA}$
	551201	${\tt GCAACTGCTGTTAACAAATAGATTAAACTACCGAAcGATATACAGATAAT}$
35	551251	${\tt AACTGTATAAATGTTAATTTTTTTAATTTCATCATATTTTTTTT$
	551301	${\tt ACTTATGATGAAACTGTTCTAACTCCTTGTAATAAACCAAAAATAGCT}$
	551351	${\tt GCTGAAGCTAAATTACTAATAGCAATAGGTCCAGTTAAAAGTGTCAGATA}$
40	551401	${\tt AAAAACATCATTTTATCAGTAGTTGCTTTTGTCAAATTAACCAAAAAAC}$
	551451	${\tt TCTCATAAAATGTAGTAACAATAGAAAGTGATCCATTTCTAAAAAAGGAT}$
	551501	${\tt GCCATTCCTATTAATGAAACTACAACTAGTAGATTAAAGTCAATTTTGTT}$
45	551551	${\tt TAATTTAATAGTTTTAAAAGTTAAATAAGTAAGATTTCTTTTGTTTAAAT}$
	551601	${\tt AAATTAGATAAATAATAAGCTAAAAAATTAATTAAGTATCCTAGTATT}$
	551651	${\tt CCAGCCACAGCTGATCCTATTACTCCTAAAGAAGAATATCTAACTAA$
	551701	${\tt AAAAACTATTAATATGTTAATCAAATTAGCAATAGGCGGAACAATTGCAA}$
50	551751	${\tt TAAAAAGTTGTCTTCCCTCTGATTGTGCTAAATAAAAAAAA$
30	551801	${\tt AGCATAGGAATGATGTTAAGACCAATCAAAATATAAACATATTCAGATGC}$
	551851	${\tt TACATCAATAGCCTTTTGTTAAAAAACTGTTGGAAGCTATTAGCTTGAA}$

	551901	${\tt AATTTGTTCAAAACTTGATTGATCAAGATTATAATGCAACCATTCTTT}$
5	551951	${\tt GCAAAAGATAAAACCAAAAATTGGGTAATTAGTCCAAATACAGTTGTTGA}$
	552001	${\tt TATTAATCCGGTATTTCAAGCTTCCTGAATTTTATTTTGATCATTTCTAC}$
	552051	${\tt CAATTGCTTTAGAAAAAAATAACTCCAGTTCCTAGAGGAATAAAAATATTA}$
	552101	${\tt ATGGCGTTTAACAAAACAATCAAAGGTTGACTAATATTTAAAACAGTTTT}$
10	552151	${\tt AATAAATTGTTTAATATTAAGTCCAGAGCTTAAAAAACTATCACTTTTAT}$
	552201	${\tt AAAAAGCAGAATTTTAAATTCATCAATTAAACTCTGATCAGTAAAAATA}$
	552251	${\tt GAATCAGGATTAAGTTCACTTCTAGGAACAAACTTAATCACCATGATTTG}$
	552301	ATCTATAAATACATAAGCAGCACTAAAAAGTGCAAAGAAAAAGTTGGAA
15	552351	${\tt CAGTAAATCTAAGAATAGTTAGAAAAAGCTGTTTTGATTCAAAAACATTT}$
	552401	${\tt TTAATTAGGAGTTGTTTTCAAAACGATCCCTTTTACTGTTCACTTATTT}$
	552451	${\tt ATTTTTAAAAAGATGGATGTAATCCTTGTATCCTAATTTTTCCATCTCTT}$
20	552501	CAAAAGGAATAAATTTTAAAGCTGCAGAATTAATACAATAGCGCAATCCA
	552551	${\tt CCTAATTCACTCGGTCCATCATTAAAAACATGTCCCAAGTGGCTATCACT}$
	552601	${\tt GTTTTTAGCACGAACTTCAGTTCTTATCATTCCGTGAGATTCATCACGGT}$
	552651	${\tt AGTTAGCAATTAAATTTTTATCAATGGGTTTTGAAAAAGCAGGTCAACCA}$
25	552701	CAACCAGATTTAAATTTATCAGTTGAAATAAAAAGTGGTTCACCAGATGT
	552751	TATATCAACATAAATTCCCTTTTCAAAATTGCGGTTATATTCATTAATGT
	552801	${\tt AAGGTGGCTCAGTGTGAGCATTTTGCGTTACATCAAACTGGAGTTTGGTT}$
30	552851	AAAGTACGTTTTAGCTCAGCTTCACTCTTTTTTTGGTATTTACTCATTTG
	552901	GAATGTTGTTTATTTAAATATACATCAATAAATGGTTTTCCTACTTTGAT
	552951	CTTAGGATTAATCTCAATTATACCCTCATTTTTCTGTTTTAAATTAAGTT
	553001	CTTTTTCAGAACATAACATGCCAACTGAATCAAAACCAGCTATTTTAGTT
35	553051	TTTTTGATAACTGTACCGCTAGGTAACACTCCACCTACTTGTACTAAAAC
	553101	TGTTTTCATACCAACTCTAACATTATTAGCTCCACAAACAA
	553151	TTTTTGTCAAACCAGTGTTAACTTTACACCTTTTTAGATGGGTGTTTGCA
40	553201	ATAGGAATAACTGAAACAACTTCACAAACAACAAAAGGAACTTTATTTGC
	553251	TAATGAAATAAGATCATAACCTAAAAGCTCACTTATTCTTTTCATTATTT
	553301	TTAATGAAGGATAGTTTAGACCTTCATTAAAGCGGTGTGATAAAAAAACT
	553351	TCTTAAAACTTTTTTTGATATTAAAAAAGTTAAAACCAGTAATTCTATTT
45	553401	GCATCATTAACAAAAAACTTCAGTCTTTGTCATTTTGTTGGCGTAAAGT
	553451	TGTTTCACTTCTACTTCCTATGATGCCAAACATACAGTTTTTTAATGTTT
50	553501	CTTTACGATAAAAGATAGAAACAAAATCTTTAGATATATCAAACATAAAA
	553551	GTTAGTTATTCTGTTTGTATTAAAAAGGCATAACTATTGATACCTGTGTG
	553601	TGTACAAATTACAGGTGAAAGCAAGTGCTCACTTACATCAACTGCATTGT
	553651	TGAGAAGCGTAACAAATTCTTGCTTTATGAGTTGATTTTATCAGTTTCA

	553701	${\tt AACATTGTTGTCAACAAAGCCGCTCTTCTGAAATTAACTTCTTTTTTAA}$
5	553751	${\tt TAGCTTTTTTCTAAAAATTGAACTGCTAACTTATGAGCACTGCTAGCAG}$
	553801	${\tt ATTGTGCTTTGTTAAAAAACTGCAATTTGCCTGTTTCACCAAGGAAACTA}$
	553851	${\tt ATTAAGAGATGAAATTTAAAGCTTTTGATAATTAAATGACTTTAAATTAGA}$
	553901	${\tt TAATCTTCCTCCAGCTACTAACGGTTTTGTATCAGTTACAAATAAAATTG}$
10	553951	${\tt CACCGCACTTATTACGGAAGTTATAAACAAATTCATCTAAGCCTGCTCTT}$
	554001	${\tt GAATACTGGTTGTTTTTAAGTCAAACCTTAATATCACTAATCAATC$
	554051	${\tt TATTAAAACTTCAACTATTCTGCTATCTAAAACATGAAACTTGTCTTCAA}$
	554101	${\tt ATTCCTTTTCAACAATCTTTCAATTTAAATAGGAGGTTGAGATCTCTTTA}$
15	554151	${\tt TCAATAGGGATTCCTATGATAAGATCATAATCATTAATTA$
	554201	${\tt TTTGTCACGAACCTCTTCTTCAGAAGTTTGTGATGTTGAAAACTTAACAC}$
	554251	$\tt CTTTAGGGGCGTTAATCATCTTATCAGTTAAGGTTTTAAGATCAATGTTA$
20	554301	${\tt AAACCTGATTTGAATGTTTCTTGGTGTTCAGCAATTGTTTCAATAATATA}$
	554351	${\tt AAGCGGTAAAACATAGAGATGACTATTTTTATCTTCCTTTAGATTACTGA}$
	554401	${\tt CAGAATCAACTAAAAAAGCGATCCTCACTATTCTAGAACTTCTGTTACAG}$
	554451	${\tt TGCCTGCCCCTACAGTTCTACCACCTTCACGAATTGAGAACTTACTACCT}$
25	554501	${\tt TTTTCACAAGCGATAGGAGCAATTAACTCAACAGTAATAGAAGCATTATC}$
	554551	${\tt ACCAGGTAGAACCATTTCAGTATTTTCAGCTAAAGCAATAGAACCAGTTA}$
	554601	${\tt CATCAGTGGTACGGAAATAGAATTGAGGACGGTAACCGTTTAAAAAAACCA}$
30	554651	${\tt GTGTGTCTACCACCTTCTTCTTTCTTTAAAGCATAGATCTCAGCTTTAAA}$
	554701	${\tt TTTCTTGTGCGGTTTAATAGAGCCTGGTTTTGCTAAAACTTGACCTCTTT}$
	554751	${\tt CAACTTCTTTACGTTCAACACCACGTAATAATACCCCAGCATTGTCACCA}$
	554801	${\tt GCCATTGCTGAATCAAGTTCCTTTTTGAACATTTCAATTCCAGTAACAAC}$
35	554851	${\tt TGCTTTTCTAATTGGTTTTAAACCAACAATTTCAACTTCTTGACCTACTT}$
	554901	${\tt TGAGTTCACCTCTTTCAACTCTTCCTGTAACAACTGTACCTCTACCAGTA}$
	554951	${\tt ATGGTCATCGTATCTTCAATTGCTAATAAGAAAGGTTTATCTACTTCACG}$
40	555001	${\tt TGTAGGAGTTGGAATCCATTCATCAACTGCTTTAATCAAATCATGGATCT}$
	555051	${\tt TAGCCTCCCACTTTGGATCACCTTCCAATGCTTTTAAAGCTGAGCCATAA}$
	555101	${\tt ATAATAGGAGTGTTCTTACCATCAAAACCATAGGAAGTTAACAGATCACG}$
	555151	${\tt TACTTCTTCAGCAACAAGTTCTTGTACCTCTTCATCACTAGCAATATCAC}$
4 5	555201	${\tt ACTTGTTTAGAAAAACTACCATTTTAGGAACCCCTACTTGGCGGGCAAGT}$
	555251	${\tt AAGATGTGCTCGCGGGTTTGGGGGCATCACACTATCAGTTGCTGAAACAAC}$
50	555301	${\tt TAGAATAGCTCCATCCATTTGTGCAGCACCTGTGATCATATTTTAATGT}$
	555351	${\tt AGTCAGCATGTCCAGGACAGTCAACATGGGCATAGTGACGTTTGTCAGAA}$
	555401	${\tt GAATATTCTACGTGTGCAGAGTTAATTGTGATTCCCCTTGCTTTTTCTTC}$
	555451	${\tt AGGGGCTTTATCAATTTCATCATAACGCGTTGCAGCTGATTTTCCTTCC$

	555501	${\tt TTGCTAAAACTGTACAGATAGCAGCTGTTAAAGTGGTTTTACCATGGTCA}$
5	555551	${\tt ATGTGACCAATGGTACCAACATTGACATGTGGTTTGGAACGGTCAAATTT}$
	555601	$\tt CTCTCTTGCCATTTGTTTAAATTATGTTGTTAATTTTAAATAAGTTTAAG$
	555651	${\tt ATAAGCTGGAGATAATGCTTATAATCTTCAAGGACTTAAATTTAGTGAAA}$
	555701	${\tt ACAAACAATTGCCAAATTATTGGCTGATGAAAACAACTTTCCTTACCACA}$
10	555751	${\tt AAAGACATTCTTAAGTTTCATTCCCTTATTTTTGGTCACTAGTGCTTTTG}$
	555801	${\tt TTTTAACTGGAATTGTTGAAAGTCTTTTAACATTTGGAACTATTATTGAA}$
	555851	${\tt CAAATTGATAAATTCACTGATCAGACTAATGTGATGTTATTAATTTATGC}$
	555901	${\tt AGTTATCTACACTTTTAATCCAAAAAGTTGATTGTTAAAAAAACCAACAAT}$
15	555951	${\tt TCTTTTTAAGTGCATTAGCTTATATTATTTACTTTATTGGCTATAAC}$
	556001	$\tt CTAATTTTGTCAATAGCTGGTATAGCTTATAAATCAACAAATCCATATAA$
	556051	${\tt GTTAACAAGTAGTATTTTCTCCATGTAATTGCACCAATAGCATTCTTCA}$
20	556101	${\tt TAGCAAGTTTTATCAAAATAAAACATGAGAAAGATGTCAATATTAACATG}$
	556151	${\tt TTCTTTAAAAGCCTATTATTATTCATGATCTATCCTTTAATATATGGGCT}$
	556201	${\tt TTATTTAGTAACTATTCCATATGTAAGGCATTATCTTTTAATGGTAGGC}$
	556251	${\tt CATCTACTTATACCATTTATGGCAGCATTACAAATACTAAAAATAATCCT}$
25	556301	${\tt TTTGCTTGATTAGTTGTATTTGCAGTTTTATTTATCTATTTCCCCTTGAG}$
	556351	${\tt TTACTTAGCTATATCTATTACAACTTAAGTTAATAAAAAAAGCCATAC}$
	556401	${\tt AACCGCAATTTAATTTGCCTTTTACATTAAATAAATGAAAACAAAAATAA}$
30	556451	${\tt GAAAAGCAGTTATTCCTGCTGCTGGGTTGGGTGTTAGGTTACTACCAGCA}$
	556501	${\tt ACAAAAGCAATTCCCAAAGAGATGTTACCATTGGTAAATAAA$
	556551	${\tt CCAATACATAGTAGAGGAAGCAGTTAAAAGTGGCATTGAACAGATTCTTG}$
	556601	${\tt TCATTGTTTCATCCAAAAAACAGCTATATTAGATCATTTTGATTATGAT}$
35	556651	$\tt CTGATCTTAGAAAATGCCTTAATTCAAAAAAAATAAATTGCAGGAGCATAA$
	556701	${\tt AGAGATTGAAGATATTGCTAATTTAGCACATATCTTTTTTTT$
	556751	${\tt AAAATCAAGATGGTTTGGGAGATGCAATCTTTGTT}$
40	556801	${\tt GGTAATGAAGACTTTGCAGTATTGTTAGGTGATGTTGTTTTTAGTAA}$
	556851	${\tt AGAACCTGCTTTAAAACAATGCTTGGAAGCTTATTATGAAACTAATTGTC}$
	556901	${\tt AAACAATCGGTGTACAAGAAGTAGATCCTTGTCATGTTGATAAGTATGGA}$
45	556951	${\tt ATTATCACCCCTGAAGGTGATTACAAAAATAAAGATCTTATTAAGGTTTT}$
	557001	${\tt AGCAATGACTGAAAAACCTAAACCAAAAGATGCTAAAAGTAATTTAGCAA}$
	557051	${\tt TCTTAGGGCGATATGTACTCAAACCATCTATTTTCAAAGCACTTAGAAGT}$
50	557101	${\tt GTACCTTATGGAGTTGGTGGTGAGTTGCAACTAACTGATGGTTTAAATTT}$
	557151	${\tt TTGTTTGAAAAATGAAAACTTTTATGCAAGAAAGTTTACTGGTACTAGGT}$
	557201	${\tt TTGATGTTGGCACAAAGAGTGGTTTTATTAAAGCAAATTTATTT$
	557251	${\tt TTAAACAATAAAGATATTAGTAAAAAAAGAAGTTTTAGAACTTTTAAATTT}$

	557301	${\tt AGTTAAAGCTTAATACCATTTAAAGTTAAACCAAGGAAGTTTTCATTTCT}$
5	557351	${\tt AATCAATCGACTAAAAGGACACATTTCATGGGCTTTTTGAATTAGTTTTT}$
	557401	${\tt TACCAACTTCTTGGTCATTACTATTAGTAGTTAATTCAACACCAGCCTTA}$
	557451	${\tt ATGTGAAATAGTCCATTTCTTGATGGAGTTCTACTTTAACACTTACAAC}$
	557501	${\tt TGGTTTTTTGAAAAACTAAATTGATGTTGTTGCATAACAACAATTACTG}$
10	557551	$\tt CTTGAGAAAAACAACTTGCATAAGCAGATGCAAATAACTGCTCAGGATTA$
	557601	${\tt TTTTCTGTTTGAACTGATAAATCAGGTTTGGGAAAACTAAGTTTTGTTTG$
	557651	${\tt AAAACCATCTAAAGTTTTAACACTACCTTCTCTGCCAGTTTCAGTTTGTG}$
	557701	${\tt CAACAGTTTTATAAATCAATGCCATGTTAATTAATATATAT$
15	557751	$\tt GTAAAAATGTTAAATAACATATTGCAATTTCTCAAAGAAAG$
	557801	${\tt TTCACAAGCTAATTTTGAAACAGAACTAGATAACCATTTAAAAGAGAAAA}$
	557851	${\tt AAAATAACTTTTATGTTGGTTTTGATCCAACTGCTAATTCTTTACATATT}$
20	557901	${\tt GGCAATTATGTTTTAATTCACATTGCAAAATTATTAAAAGACATGGGGCA}$
	557951	${\tt TACTCCGCACATAGTTCTAGGGAGTGCAACTGCTTTAATTGGTGATCCTA}$
	558001	$\tt CTGGCAGAATTGAATTAAGGAAAATTTTAGAAGAAAAAGAAATTGTAAAA$
	558051	${\tt AACACCAAAACAATTAAAAAACAAATCAAACAGTTTTTAGGTGATGTAAT}$
25	558101	${\tt TATTCATGAAAACAAAGTTTGATTAGAAAAACTTAATTACATTGAAGTTA}$
	558151	${\tt TCCGTGAATTAGGTGCTTTTTTTCAGTTAACAAGATGTTAAGCACAGAC}$
	558201	${\tt GCATTTAGTGCTAGGTGAGAAAAAGGACTAACTCTAATGGAATTAAACTA}$
30	558251	${\tt TATGATCTTACAAGCATATGACTTTTATTATCTACATAAAAACCATAATG}$
	558301	${\tt TCACTTTACAAATAGGTGGAAGTGATCAGTGGGCTAATATTTTGGCTGGT}$
	558351	${\tt GCTAACTTAATTAAAAGAAAAAATAATGCTAGTGTTTTTGGATTAACTGC}$
	558401	${\tt TAATTTATTAGTTAAAGCTAACGGAGAAAAATGGGTAAAACTAGTAGCG}$
35	558451	${\tt GAGCATTATGACTTGATGAAAATAAAACTAGTGTTTTTTGATTTTTATCAA}$
	558501	${\tt TACTGGATTAACCTTGATGATCAAAGCTTAAAAAAAGACTTTTTTAATGCT}$
	558551	AACAATGCTTGATAAAAAAGTAATAGATGAATTGTGTAATTTAAAAGGCC
4 0	558601	CAAAAATTAAACAAACCAAGCAAATGCTAGCCTTTTTAATTACTGAATTA
	558651	ATCCATGGCACTAAAAAAGCAAAAGAAGCACCAACCAACGATCTGAACTAAT
	558701	ATTTAGTAATCAACCAGATCTTGATATTAAGTTAGTAAAAACAAGCACTA
	558751	ATCTAATTGATTATTTAGTTGAAACTAAATTTATTAAAAGTAAATCAGAA
4 5	558801	GCAAGAAGATTAATTAGTCAAAAAGGTTTGACAATTAACAATAAACACGT
	558851	TTTAGACTTAAACCAAATAATTGAATGAAAGAAGAAGATTACTA
	558901	GAAAAGGTAAAAAAGTTTTTTAACAATTAAAACTGTTAATTCTTAGCTA
50	558951	ATTTATCTTTAACTTCTTTTTCTATTTCAGTTTCAACACTTTTTTGACTA
	559001	GAGCTTTTACTTTCTGGTTTTTTGATTAATTTGTTATGAAGTAAATCAAC
	559051	AACTTTCTGCATTGAATTTAATGTTTTGAAATCATAGCTTGCTT

	559101	${\tt TAATGTTTGTAACTAGATCATCAAATGCTTCATTCACTTTTAGTTTAGTA}$
5	559151	${\tt TCCATAAAGGTTGTAGGCACACTCATAAACAAGTAAGTATGAACTGTGTC}$
	559201	${\tt ATTATAGACATTAAATTTGGCATATACATTCAAAGGATTAAAAAGCACTT}$
	559251	${\tt TATTTAATACCTCTGTATCTAAATTCTGAAAAGAAAATTTGAATCTTTT}$
	559301	${\tt TCAACAAAAAGTGAGATGTTTTCTTGCTTTTTGTTTTCAGTAAGTGCTTC}$
10	559351	${\tt AAACTGAGCCACATTCTTATTTAAAGAATAGTTAGCATCAGTTAAAAAGA}$
	559401	${\tt AATGATTTCACTATTAATTGCTGGTGTAATAGCAATCAAGCAAG$
	559451	${\tt TTTTCTGTTTTATTACTGCTTCTTTTAATTGCATAAATATGACCAAAAAC}$
	559501	${\tt AAATTCACTACCATCTTTATAAGTAACTTTAAATTGTCTTGGAAGTGGTT}$
15	559551	${\tt CAAAATTGTAAAGAGCAGTTGGATAAAAACTTGGTAATATATCGCTGCTT}$
	559601	${\tt ATAGGACCTTGTTCAAAAAATTCAAATGATTCTATTGCCTTGAAATTACC}$
	559651	${\tt CATCTCTTTTGTCATAAATTAGTTCTGTTTTCTTTGTTAACTTTTTTA}$
20	559701	${\tt ATAGCTTGTTTTTAAAAAGAGCAGCAAAATGGATAACAAATGCTAAA}$
	559751	${\tt AACAAAACAACTACCTAAAACAATTAAAAAAAGTGATGCTATATTTGG}$
	559801	${\tt TATTTCATTACGTGTATAACTATAAATACCAAATGAGATAGCAATAACAC}$
	559851	${\tt TAAAAAGACCACAAAGTCCAATTACTCTTAGAAAAGCATTGAGTTTATTT}$
25	559901	${\tt GGTGTCAAAAAGAACTTGTTAAATTTAGTTAGATCTGACATATTTGTATA}$
	559951	${\tt AAAGATTGTATGAAAATATAAACCAAAGCAAGCTCAACAGTTGTTTTATT}$
	560001	${\tt ACAAGATCTTTTCCTAAAAACTGCAAGTTGCCAAACTTAGCACGCATCT}$
30	560051	${\tt TTATTAAACGAAGATAGAGCTCATCAAATTTTATATCAAGTATTTTGTAT}$
	560101	$\tt CTTTTGTTTTGGAAATAAAAGTGCAAAAGTACTTTAGAAAATAAAA$
	560151	AATCAGATCCCAAATTCGTTTTTGTCCTAAACTAATAGTTTTGTTTTTA
	560201	GTAATACTTCAGTTTGCTTTAAAACATTTTTAAAAGTAATAACAAGATCA
35	560251	TCATTACTGTCATTTAAATAAGTTTGTATGTTTTCAATTCAAATCAAAAT
	560301	GTAGTGATATTCACTGTCAAACAATTGGGGATTATTTTTAATTACTGTAA
	560351	AAAAATCAGTAATTGTTTTACTTTGATCATTTAGTACTTTAAAACAATTC
40	560401	CAAGCTTCATTACCATAACCAACTTCTATTGCATTTAATTCTTGCTTAAA
	560451	TGATAGTAAGTTAACCAAGAAGTTATCAATAAAATCAACAACACTAACTG
	560501	TTTGTTTCACTTTCTGGTTTTACTTCAGATTTATTTAGTTTTTGCTTTGC
45	560551	TTGTTGTTCTTGCTTTTGCAATAAGATTTCTGGTGGTAGTTTAGTGTTTT
	560601	TATGGATGAAGTCAATATCACTTTTCAAAATAGTTTCAGCAATTAAAAGT
	560651	GCTTCTACAAGCAATTCTAGTTCCTTACGGTTACTCTTAATGATTGTTTT
50	560701	TGCTTTCTTATACTGTTCTTCAATAATGAAATTAATCTCATTGTCAATAT
	560751	CTTTAGCAGTTTGTTCTGAATAAAGTTTTACATTAGAAGGGAGTGTCCCT
	560801	TGACTTGGTACATATTGCACTTGACCTAATTTAGACATCCCAAGCTGGGT
	560851	TACCATTGCTCTTGCAATATTAGTTGCTTTATAAAAATCGCTAGAAGCGC

	560901	${\tt CAGTAGTAATTTCTAAATTACCATAGATTTCCTCTTCAGCAGCTCTACCG}$
5	560951	${\tt CCCATAGCAGTTGCTATCATTGCAAGTAAATCAGATTTTCTTTTTAGGTT}$
	561001	${\tt AAGATCACCACTCTTAGGTGTTGAAAGTGTGTAACCCCCTGCTTGACCAC}$
	561051	${\tt GAGGAATAATGGTAATCTTTTGTACTTCATCATTACTGTGGACATGTAAA}$
	561101	$\tt CCAACCAAGGCATGACCAGCCTCATGATAAGCAACTAGTTTTCTATCTTC$
10	561151	${\tt ATCACTAATTACACGTGACTTTTTAGCAGGACCAGCTATTACTCTATCAA}$
	561201	$\tt TTGCTTCATCATGTCATTAATGTTAATTGTGGTACGGTTGTCTCTAACT$
	561251	${\tt GCTAACAATGTAGCTTCATTGATAACATTTTCTAATTGAGCACCTGAAAA}$
	561301	$\tt CCCAGGAGTTCTCTTAGCAACATCTAAAAGACTTATCTTAGAAGAGAGAG$
15	561351	${\tt TTTTATTTCAGCATGAACTTTTAAAATCCCTTCCCTTTCTTT$
	561401	${\tt GGGAGATTGATTTGAATATGTCTATCAAATCTTCCAGGTCTTAATAATGC}$
	561451	${\tt ATCATCTAATACATCTAACCTATTTGTAGCTGCCATTACAACAACACCTG}$
20	561501	$\tt TTCTGCTTGTAAATCCATCCATTTCAGCTAACAATTGGTTTAAGGTTTGC$
	561551	${\tt TCAACAACAGAATAAGAAGAGAGTTCAACTCTACCCCGTTTAGAACCAAC}$
	561601	${\tt TGAATCAATTCATCAATAAAAATAATACAAGGAGCAGCCTTTTTAGCTT}$
	561651	${\tt TATTGAAAAGATCTCTAACTCGTTTAGCACCAACACCAACAAGCATATCT}$
25	561701	${\tt TCAAATCCAGAACCCGTTGATTGAAAGAAAGGAACACCAGCTTCACCAGC}$
	561751	${\tt TACTGCTTTAGCTAATAATGTTTTACCTGTCCCAGGTGGACCGTATAAAA}$
	561801	${\tt TTACCCCACGTGGGGATCTTGCTCCCATCTGGGCATATTTCAATGGATTT}$
30	561851	${\tt TTTAAATAATCAACTATCTCAAGCAACTCATGCTTTTCCTCTTGAAGTCC}$
	561901	${\tt AGCAATATTGGTAAATTTCACAGTTGACTTAGCCAACTTAGCTTGGGTTT}$
	561951	TGCCAATAGAAAAATATTATCTTCTTCTCTGCCCCCTGCAGATATACCC
	562001	${\tt CTAGCACTTCTTCAAAAGAGTAAAAAGAAAACTACAAAGATAATTGG}$
35	562051	${\tt TAGCAAGCCAAACAAACCATTTAATACATCTCTAGCTCTAGTATCAGGAG}$
	562101	${\tt CAATGAAAGTACCAAGGGTTTCAAAACCTGCAATACTCTTTGTGTTATTA}$
	562151	${\tt CTAGAACCACCATTCATCATGGTTCCATTACTATTAACGGTAATCTGACC}$
4 0	562201	${\tt ATTACTTTGGTTAATTGATAAGTTAGCAATATTAAAGATAACATTGCCAT}$
	562251	TACTATTAACAGTTTTGTGAGCAGTAACAGTTAATGGACTATTTAAACCA
	562301	${\tt TCAAAGGTAATGGAAACTTGGAGAATGGTATCAGTAACATAAGTTGAACC}$
	562351	ATTTATTTGTTTAAATGTCAGTTCATTACTAAAACCGCTTACTTTTGCTG
45	562401	TTAAAGTGCTGTTACTACCTCCATTTAATTTTCAGCTTTCAACTACTGCA
	562451	GTAGCAGCTCTTGGACTGAAAATATAAGCTAAAACACCAATAACAACAGC
	562501	TAAAATGATGACTCATCAAAAGACTTTTCAAGCAGTTTTACGTGAAAAAT
50	562551	TATTTTTTCAGTAGTTGTTTGTTCTACTAAACCCTTATTTCTTTTTTC
50	562601	${\tt ATCTATGTTAGTTTTGACCGATTTGGGTTTTTTTGGTTTGAACTACATT}$
	562651	AACTGTAATTATACTGCCAATGGTAATGAAACTAATAAGTGTTAATAAAG

562701 TGACGAAAATTATCTTTTATGTTTACTTAAAAGTGCAATAAAAGCCTTG

5	562751	${\tt AACCAACGCATAAAATTTTAATATCTGTTTTAGGGATTGTCTGGTT{\tt CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA$
	562801	CACACCAACATAAGGTAGGTTACGATAAAAACCATCATAGTCAAGACCAA
	562851	AGCCAACCAAAAATTATCTTTTACTTTAAAACAAGAAAAATCAATATTA
	562901	ATATCAAAGGCTTTGGGTTTAATCTTTTCAATTAAGCTAATTAAAGTTAT
10	562951	TGATTTAGCATGCCTTGTTTTTAGAAGATCAATAACTAATTTAATAGATC
	563001	${\tt TACCACTATCAACAATATCTTCTATTAAAAGGATGTCTTTATCTTTAGGGGGGGG$
	563051	${\tt TCATGGGACATATCAAGCACAATCTTAGGTGGTTGTTTTTGTACATGTGACATGTACATGTGACATGTACATATGTACATGTACATGTACATGTACATGTACATGTACATGTACATGTACATGTACATGTACATATATAT$
	563101	ACCATGATAAGAAGCAACTGCCATAAAATCTAGTTGGAGGTCAAAACTAA
15	563151	ATTTACTTATCACTTTGCCAAGGAAAGGGATGCAACCTTTTAGAATGCCA
	563201	AGAACAATTACCTTTTTATTATTAAATTTAGCATTGCACCAATTAACTGC
	563251	TTTTTGACAGCCTTCTTCTATCTGTTGTTCATTAATAACAATAGATTTAA
20	563301	TACCCATCTTATTTAGTTTTTTGACGTTCTACTAAAACAACAGCTAAGCA
	563351	${\tt ATTAATTTCATTACTGTCTAAAGGTTTTCTAACTTTGAGATTAATTGTTAACTTTAACTTTGAGATTAATTGTTAACTTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAACTTTGAGATTAATTGTTAATTTAATTGT$
	563401	ATTCTGAAATTCTTAAAGCACTACAAATAAAAGCAAAGATAGCGTGTTTA
	563451	TAATCATCAACCTTTTGCTCTTGAGGAATCTCTAAGGAGATATCAATATT
25	563501	ATTGATAATTCAGTTTTTTCTGATGAAATTGTAAGTTCTTGCTAAGACTC
	563551	TTGGTGCTTCTTTTTTGCAGTACCTTTAAATTGGACTGTTGATTTTCCT
	563601	TTATTGAAAACAATATGACCATCACCTAATGCAGTTGCACCAAATAAAGC
30	563651	ATCAGCAACTGCTAATTGGATAACATCACTAACTTCATCACTGTTTTCAA
	563701	GATCATAAATATTTTAGAATTCTCAAAATCAACACCGCCTAACCAAAAT
	563751	TTATTTTACTTTCCTTAATTTTATGTGGTATTTTTTGCTTCCTAG
	563801	GCCAACTCTTAACTGCATTGTTACAAATAATTATAATATCGCTCATCTTT
35	563851	AAATAACAGTGTTGTTTTGTAATCCAAAAAAAGTAAATTCAGGCAACAGT
	563901	TTTTTGACTTCAAATATCCTTATTTAGACAAAGCAAAATTTATTAAAGTG
	563951	AACCAAAATAAAATTGAAGTATATCTCTAGATAAATAAAT
40	564001	CTAAAATTGCAATAGTAGGATCAGGTGCTGTTGGTACTAGTTTTCTATAT
	564051	GCTGCAATGACTCGTGCACTTGGTAGTGAATACATGATTATAGATATCA
	564101	TGAAAAAGCTAAAGTTGGTAATGTATTTGATCTTCAAGATGCTTCCTCAT
45	564151	CATGCCCAAATTTTGGCAAAGTAGTTGCTGGAGAATACAGTCAATTAAAA
	564201	GATTATGATTTATTTTCATTAGTGCAGGAAGACCTCAAAAACAAGGTGG
	564251	GGAAACTAGGTTGCAGCTACTTGAAGGCAATGTAGAAATTATGAAAAGCA
	564301	TTGCCAAAGAAATCAAAAAATCTGGTTTTAATGGAGTTACATTAATCGCT
50	564351	TCAAACCCAGTTGATATCATGTCATATACATATCTTAAAGTTACTGGATT
30	564401	TGAACCTAATAAAGTAATTGGCTCTGGTACTTTACTTGATAGTGCAAGAT
	564451	TAAGATATGCAATTGCAACTAAGTACCAAATGAGTTCAAAGGATGTACAA

	564501	${\tt GCATATGTTATTGGTGAACATGGTGATAGTTCAGTAAGTA$
5	564551	${\tt AGCTAAAATTGCAGGACTATCACTAAAACATTTTTCTAAAGCTAGTGATA}$
	564601	${\tt TTGAAAAAGAATTTGGTGAAATTGACCAATTTATCAGACGCAGAGCTTAT}$
	564651	${\tt GAAATTATTGAACGCAAAGGTGCTACTTTCTATGGAATTGGTGAAGCTAG}$
	564701	${\tt TGCTGATGTAGCTGAACAAATTTTGAAAGATACTAAAGAAGTTAGAGTAG}$
10	564751	${\tt TGGCTCCTTTACTTGGTCAGTATGGAGCGAAGGATATGATGTTTGGA}$
	564801	${\tt ACTCCTTGTGTACTTCAAGAAAAGGTATTGAAAAGATCTTGGAAATAGA}$
	564851	${\tt ACTTTCAAATACTGAAAAAGTTGCGCTTGAAAATTCAATTAAAGTTTTGA}$
	564901	${\tt AAGACAACATTAAACTAGCAAAGCTTTAGTTTTGATAGAAAACATTAGCT}$
15	564951	${\tt CATCTATAAAAAGAGTTTTCAAAAAATAACTCGTTACTTCTCTTAACAAG}$
	565001	${\tt CATACTAATTTCACTGAGATTTTTAATCTTGTTTTGAGAAGTTTTTATTT}$
	565051	${\tt TTAATTCATTTTTGTGCTTATTTCATCCTTCATAAAAACCCTTAAATTGG}$
20	565101	${\tt TTATTGAATTTAGTAATGAAATAACTAGGAGTTTGATATTCTTTTACTTT}$
	565151	${\tt TAATTCAAAATCAAGATCACGTTTTTCACAACTTTCATAAAACTTTACTT}$
	565201	${\tt GAAATTTCAGAGTGTTAAGATAACTATCTAGTAAGGTTTTTAATATTGCA}$
	565251	${\tt TCTTTAGTTGTTTCAAATGTATTAACTAAAAATGAGTGAAAAACATAATC}$
25	565301	${\tt ATCTAACTTCACAAAACAAGTTAATAAACTTTTTTTAAACAACTGGTTTT}$
	565351	${\tt TTAAAAGCGGTTTAATTACACTTTCAACATTCTTAAAGTTATGAAAATTA}$
	565401	${\tt AAGTTGTCTTCTAATTAAAGCTTTAATCCGTTGAAAAACAAATCATAA}$
30	565451	${\tt GTTAAGTTCTGTAGCAATACTTCTACCATCACTGTAGATTGATT$
30	565501	${\tt TGTGGTGTCTTGTTATCAAGAAGTTTTCAATGAAAGGCAAGCATTTTTCT}$
	565551	${\tt TGAAAAACAATTTTATAAGTGCCCTGATTATCTACACATTCCATTCCATT}$
	565601	${\tt GATAATTGATTGATAATCAACTAATGAGTGACTGGTACCTGTAAAATAAG}$
35	565651	${\tt CATCACGTAATAAATAATCCATTCTGTCTGTGTCAAGATCTGAAGAGATT}$
	565701	${\tt AGCTGTCTCATCCACCAGTTAATAGGTTGAATATTTTGATTTTCATCAAT}$
	565751	${\tt TAAAGCGCCAATCAGATTTGGATCTATCTTATTAGCTTTTAAGATAGAGA}$
40	565801	${\tt CAATAGGTTCACTATTAACTAACATTGAAGTAACCTTTTCATGAATAAAA}$
70	565851	AGTTGTTTTTTAAAATCAGGATTTTTAGCAAAATAGATTTCAAAAGCATG
	565901	AGAATGAGGTCCATGACCAAGATCATGCAACAAACCAGCTACTAAAACAG
	565951	TTTGTTTTTTAATTTGATCAATATTTAAAAATGCAGAACTATTTAAGATC
4 5	566001	$\tt CTTCTTATCAGTTCATAAACTCCTAAAGAATGGGCGTACCTAGTGTGAAC$
	566051	${\tt TCCACTAGGATAAAAATGGAAGTTAATTCCTAATTGTTTGATGTTTCTTA}$
50	566101	ACCTTTGAAAAGCTTTTGTATTGACCAATTCATACATCCACTTTGTGTTT
	566151	TCATCAAAAATAATTTCTCCTAAAATAGGATCTTTAAAAAAGGTTTGTTG
	566201	CATTAATAAATTGCTTAATTAAGTTTATTGCACTTTCTTT
	566251	TCAATAATATGTGCTAAATCAGGTCCATGCTCCTTATTTGTAAAAATTAA

	566301	CCTTATTGGCATAAAAAGTTGTTTACCTTTTAAGTTAAACACTGCTCCTA
5	566351	$\tt CTTTGTTAATAGTTGTTTAATTTGCTCAGCTTTTCATTCTTCCAACCCT$
	566401	TGTAAAGATTTGGCAAGCTGTTCTAAAAAAAGTTTGATGTTTTTAAACAA
	566451	${\tt AATATGACTTTTCTTAGCTAAGTTTTCAACACCTATTTTAGTGGCAAAAG}$
	566501	${\tt ATTCTCTTATCAATTCGTTTATTTGAACACCATGGGTTATTTGATTTTTA}$
10	566551	${\tt AAAAGTAAACTTATTTCCCTGTTTTTATCTTTTAAATAATCAACCTTAAC}$
	566601	${\tt ATCCAAGTAATTATCAATGAAATTGAAATAAGCATTATCAGTTAATTGTT}$
	566651	${\tt TAATGTAATTAGCATTGATTCATTGCAGCTTTTTAATATCAAAAAAAA$
	566701	${\tt GGAGCACTAACAACTCTACTTAAACTAAAGTTTTCAATTAACTGTTTCAA}$
15	566751	${\tt ATTAAAAAACTCCTGGTTGTACTGTGGATGTCAACCTAAGAGTGCTAAGA}$
	566801	${\tt AATTTAATAATGCTTCAGGTAGATAGCCTTGTTGTTTAAACTGCTCAATA}$
	566851	${\tt AACTGAGTAGTTTLCTCATCACGTTTAGAAAGTTTTTTGCCACTTTCATC}$
20	566901	${\tt AACAATAACTGAAAGATGACCAAAGCGGGGAATTCTTTTAAAACCTAATG}$
	566951	$\tt CTTGATATAGCAAGTTGGTATGCAGTGTTAGAGATGTGCTCAGCTCCC$
	567001	$\tt CTTAAAACATCAGTAATTTCCATATCATAATCATCAATAACAACTGCAAA$
	567051	${\tt GTTATAAGTAGCAACACCATTAGCTTTAAGAATAACTATATCTGTTAACG}$
25	567101	${\tt CACTGCCGGGAATAGTAATTTGTCCCCTAACCAGATCATTTCAACTATAT}$
	567151	${\tt TCAGCTTCATTGTTTATTTTTAAGCGGATAGTAAAAGGATCATTTTTTTC}$
	567201	${\tt TAAGTGATTAGTAATTTCTTGGAATGTAAATTACGACAATGACCTAAGT}$
30	567251	${\tt ATTTAGGGGTTTTGTGGTTATTAATGGCTTGTTTTCTATCTGACTCTAAT}$
	567301	${\tt TTTTCTTTGCTACAGAAGCAACGATATGCCAGATTTTTTCAATTAAATC}$
	567351	${\tt AAATGCTAGTTTTTATAAACTGCTAGTTTTTGTGATTGCAGATATGGAC}$
	567401	${\tt CATAATTGCCAGGGTTATAAACCGATTCATCTGCAATGACTCCAAGCCAA}$
35	567451	${\tt CGCAAGTTATCAAATTGTGAATTAATTCCTTCTTTTATGTTTCTTTC$
	567501	${\tt ATCAGTATCTTATCCTGATAATAAACTCACCATTAAAGTGCTTGGCTA}$
	567551	GTAAAAAGTTAAAGATTGCTGTTCTTGTACCACCAACATGCAGATATCCT
40	567601	GTTGGGGATGGTGCATAACGTGTTCTAATTTTTTCCATTACAAATGTTTT
	567651	GGTAAAGATTAAAGAGTTGACAAGGACTCAACTCTTGCGCTCTAATGCTA
	567701	GTCTTTAAATTTTGCTTTTGAATAATGTTAAGTAAATAATCAACTGCAAA
	567751	AAAATGCTTTAAGTTATTAATTAACATCTTCCTTCTTTGATTGA
45	567801	GCTTTAAAAACAGACCAAACTTAAAGTCATAACTAACCGATTTATTT
	567851	TCTAATAATATTAAGGTTGAATCCACCTTAGGTTTAGGTTTAAAAGCATG
50	567901	CCTATCAATTTTAAAAACTGTTGTAATAGTCAAATAGTATTGACAAAAAG
	567951	CACCAAAGGCACTATAATCACTAGAATTAACCTTTGCCAGAAGCCGATTA
	568001	GCAAACTCTTTTTGTGTCATTAAAACAAAGCTTCGAAGCTTTGATTCTAA
	568051	AAACTTATTGATTATTGGAGATGTAATGCTATATGGGATATTACCACACA

	568101	${\tt ATAATGGACTTAAATTTTCAAAAAAACTATTAAAGTCCTTTTTGAGAATA}$
5	568151	${\tt TCGCCTTTAACTAGTTGGTCTTCAGTTAATATCTTTtCAACTAGAAGATA}$
	568201	${\tt TTCAATTAAGCGTTTATCAATTTCTATCCCCTTGTAAGGTATTTTGAGTT}$
	568251	${\tt TTAACAAATAATTTGTTAACGCTCCTTTACCAACACCTATTTCAACAATT}$
	568301	${\tt GCTTGTGGATTTAAATTTTTAACAAAAGCAAAAATTCTTTTAATGACGCT}$
10	568351	${\tt TAAATTAACCGTAAAATTTTGACCTAATTTACGTGAAGGAAAAAAACTAT}$
	568401	${\tt TCACGCTCTAAAATCAAATCTAATTTGGAATAATTTTGCTTTCTTT$
	568451	${\tt CCTTCTTTTGACAATGAAAACATGGGTTAAATAAGATTGTAATAAAGTAA}$
	568501	ACAAAGCATTTAAAAACCAATAAACACCAACTCCAGCAGCACTAAATGCA
15	568551	$\tt GTAATAGCAGCAAACACAAAGTAAAAAATTAATTGCATCTTTTTAGTTTT$
	568601	${\tt GTTGAGTTGTTCAATACTTTTTTGAGAATGGGCTTTCGCATTCTCATTAC}$
	568651	${\tt GCTTACTTGCCCACACTTGAGGAAGTTTTTGAGAGAGAAATTGGACTGGT}$
20	568701	${\tt AAAACAATCACTAAAAAGATGATGAAAGGTCAACCAGTTGTAGTGAAATT}$
	568751	${\tt AGAGAAAATTTCTGTTAAAGGTACTTTTGAAAGATCCCAAAAGTTAAATA}$
	568801	${\tt AGATGATTGCTTTAATTGGTCTTAAAGTAGTAACAATCCTATAAATAA$
	568851	${\tt AAAAAGATAGGTAAAGTTACAAAAACTTGAACAAAAGCAGCAGATGATTT}$
25	568901	${\tt AATGTTGTGTTTTTATAAAGTGACATTATCTCTAACTGTCTGT$
	568951	${\tt TACTTTGTAAATCTATTGCCCCTTTATATTTAGCGTTAATTTCTGCTAAT}$
	569001	${\tt TTACCTTGCACTTCATCTTTTCAAGTGCTAAAGTAGAGTTTAAGGT}$
30	569051	${\tt AATCACAATAGTTATCAAGCGAACTAATAGTAAAAGTACTATTAATGAAA}$
	569101	${\tt GAATCATGTTAAACCCAAGTTCCACCCCGCTACCTAGTGGAACTCTGGTT}$
	569151	${\tt GCATACATAATTGGTAAAACTATTTGCGCTGCAGGCCAGACAAATCATCC}$
	569201	${\tt ATAAAAAGGGCCATATGCTAAGGTGTAATCACTAAAGGTGAAATAAGGGC}$
35	569251	${\tt CAAAGTTATTTGAAATCAAATCATACCTATAATCACCAGTAGTACCAAAT}$
	569301	${\tt TTATAACCTATCTCAAGTCCTGAACCTAAGACTTGATTAGTACCTGTTCA}$
	569351	$\tt GGGTTGTGCTAAGGTTTGAGTACAGCCCCAAAGCCCAACAATAGTTAAAA$
40	569401	${\tt AAATAAAGATAAAAACCTTAATAACCTTTATGAAAATAGCTGAAAACTTT}$
	569451	${\tt TTGAAGTTTTTTCATTAACAACTGCTGCTGATCAAAA}$
	569501	${\tt AGGATTAAAGGTGGTTTTTATCTCTTTTTTTTTTTGCGCTAGTTTGATAG}$
	569551	${\tt GCATCTACTTCTTTATCCGCTTTAATAGTTGCAAAAAAGTTTTTGTTT}$
4 5	569601	${\tt TTCTTTAAATGTTAATTCAATAAAGCCTTTGTTGACAATAACTAAAATAT}$
	569651	$\tt CTCAAGGTTCTAAATTATTACTAATTTGTTGAAAGATACTACGGATCTGA$
	569701	${\tt CGCTTAATTAGGTTACGTTGTACTGCTAGCTTATATTTAGTTTTTGCAAT}$
50	569751	${\tt TGATATTGCAACCCTTCAAGTAGAATGATTATTCTTAATAAAATAAGCGT}$
	569801	${\tt TAATAAAGGTACCAAAGAACCTGGTTTTACTTTGAAGAATGGTTGTAAAA}$
	569851	ACCTTGCGTTCTCTTAAGCTGTGACTCTTTTTAACGCTCACTGGAAACCG

5	569901	TGAGTTGAGCACGATTTTTAAAACGTCTTTGCCTTAAAACTTTACGTCCT
	569951	TGTGCAGTTGCCATCCTAGCCATAAAACCATGGGTTTTAGCACGCTTTAA
	570001	$\tt TTTGCTTGGTTGGTATGTTCGTTTCATGAAACAATTAATCAGGTGATTAT$
	570051	AACTAAACTAAGGGTCTGACTAATTGGTTAGATACTATTTTACCATCTGA
	570101	${\tt AATTTTAATGATTCTATTAGCTATCCTTGTTAGGCTTACATCATGGGTAA}$
10	570151	${\tt CCATTAGGATGGTTTGCTTATATGTTTTGTTAATTGTTTGT$
	570201	ATGATATTTTCCGCAGAATTACTATCAAGTGCACCAGTAGGTTCATCACA
	570251	${\tt AAGTAATAGTTTAGGTTCTTTAATAATAGCACGGGCGATGGCCACTCTTT}$
	570301	${\tt GTTTTTGCCCACCTGACATCTCATAAGGAAATTTATACAAGATTTCTTTA}$
15	570351	${\tt ATATCTAATTTTCAGCCAACTCTTCTATATCAAGTCGTCTTTGATATTT}$
	570401	${\tt GGGAATTAAGTTTTGTGAAATGGCAATATTATCATAAGCACTTAACAATT}$
	570451	${\tt CAATCAGATTATAACGCTGATAGACATAACCAAGGTTATTCTTTCGATAA}$
20	570501	${\tt GTTAAAAGTTGTTCACTAGTACATTTTTCTAATGGACAGTTTGCTACGAT}$
	570551	${\tt ACAACTCCCTAACGAGATAGAATCATAACCACCTATCAGGTTTAAAAGGG}$
	570601	${\tt TTGTTTTACCTGATCCTGAAGAACCTAAAATGATTACTATTTCACCATAA}$
	570651	${\tt GCTATCTGTAAAGAAACATCTGAAAGGATAGAAATCTCTTGCTTTGAATC}$
25	570701	${\tt ATCATTATGAACATTTTTCACATCTTATTGATGGTAATAACAATTCCCT}$
	570751	${\tt TAGCTTGTTGAGCAAAAGGAGGGATATATAAGGTATTGGCTTTTTGCTTT}$
	570801	${\tt TTATTAGCTTTTTTTGAGCTTTAGCTCAGCTTTTTTAATGTTATTTAA}$
30	570851	${\tt AACTTTTTTATTCTTCTTAGGAGGTTTAGATTTACTCTTTTTGAAATAAT}$
	570901	${\tt CATCGAAATTGGCACTAAAAGAAGGACTTTTAACGTTATCTAAGATATCA}$
	570951	${\tt ATACATTCATATCAAACAGTTTTATTGCCTTTTTTCATTAACTAAAACCC}$
	571001	${\tt TTCCTTCAGTTCAGCTGAGCGTAACTTAATTCAAAAGTAAGAACCAATTA}$
35	571051	${\tt CAAAGATAGTAACACCAAATAATACTATCCCTACCATGTATGGCAAGAAC}$
	571101	${\tt TCAAATACATTAGTTAAAAAGACTTGTGCAACATTGAAAACAACCGCTTG}$
	571151	${\tt GATACCAATTAAAACACCAGCTAAAACTCCAATAGAAATTAGTAATGCTA}$
40	571201	${\tt AAACAAATGCAGGGATAAAGAAGGTAAGTAAACTAATTAAATTTTGTACA}$
	571251	${\tt TCTCTATAGCCAATAGCCTTAAGTGAAATAAAGATTCTTTTCATCTCTTC}$
	571301	${\tt TAACATTGAGATACCAAGTACCAAGTAATGAAAATGAAAGGAATAA}$
	571351	${\tt TAGTTCCTAAAAGAAACGCATCTACTTGATTCACAGTGTTAAACAAAACT}$
4 5	571401	${\tt TCAGCATTATTTCTAATGATCTGAGCACTAGTTCCAGCTGCATCAATATT}$
	571451	${\tt GAGTACAGGAGCAATAATGTTATTACCAAAAATACTACTTGCATTTTGGG}$
50	571501	${\tt AAAGTAAATTAACACTATTTCATTCTGTTTTTGTATTTATT$
	571551	${\tt TTACGAAGCGATTCATAATTCATTGAAGTAGTATTAATAATCTGTTTTTC}$
	571601	${\tt TTGTGCTAACTTATTAATATTTCAGGATCAGTAGGTAGTATGGATGTAA}$
	571651	${\tt TAACTTTATCAAGTTTATTCCTTACTAAATTTTGGAAATTATTACCAAAG}$

	211101	1CAGIGAANI IACCCCAAACACCAAI IAICOAOII IIMIMCIAAI OCCII
	571751	ATTTAATAAAGAAGGTTTTAATTCTTTGGAAAATACACCATTAAAAGGAA
5	571801	${\tt CATAACCGTTTGGTTTTACATAATCAATTTCATATTCATCACTACTTTGA}$
	571851	GATTGGCCATTTGTCTTTTTAATAACATCTCTAATAATACCTCTGCCCTG
	571901	ATTACCACTTAGTTTTAATAAGTTATTAGCAATGTGTTGGTTAATATAAA
10	571951	GTTCTTGTCCAAAAGCATCAGTAGAAACACCAACAACTTTAAATGCTACT
	572001	${\tt GTTGAATTATTTAAGGGTGCTTTTAGAAATTTTTCAGAGTATCTTGTGGCCTTTTAGAAATTTTTCAGAGTATCTTGTGGCCTTTTAGAAATTTTTCAGAGTATCTTGTGGCCTTTTAGAAATTTTTCAGAGTATCTTGTGGCCTTTTAGAAATTTTTTCAGAGTATCTTGTGGCCTTTTAGAAATTTTTTCAGAGTATCTTGTGGCCTTTTTAGAAATTTTTTCAGAGTATCTTGTGGCCTTTTTAGAAAATTTTTTCAGAGTATCTTGTGGCCTTTTTAGAAATTTTTTCAGAGTATCTTTGTGGCCTTTTTAGAAATTTTTTCAGAGTATCTTTGTGGCCTTTTTTTT$
	572051	${\tt AGTATTTTCGGTTTTATATAAACATAATCACCAATATTAATGTTGTTAG}$
	572101	CATATTGAAAACCAGCATTAACAATTACATTCATTTCCTGATCAGAACTA
15	572151	ATTAAATTTCTTAAAGAGTTACCACTACCATCTATCAGATTAACAAAACT
	572201	${\tt TGATTCAGGGTTAATCCCTGTTAAAGTGTATGGTGAATTCTCATCAAGATTGTAAAGATTGTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATAAGATTAAGA$
	572251	${\tt TATCTTCTTGAAAACCAAATGGGCCTTCAACATAAGTGTAGGTTTCTTCTCTCTC$
20	572301	$\tt ATGGCAGGGTCAACAGGAACAATCCCAAAATTTAACTTAGAATCTTGTTT$
	572351	TGCAAGTTCAAAATCCCCATAAACTTTCAACATAAAACTAAGAAAGCTAT
	572401	CATTAAATTTAACCCCACCAGGATTAAATACATCAATTGTAGTTAGT
	572451	$\tt CTACTAGCATCTAACTGAATTTGATTAGTTCTAGGGTTTCTAATTAAAAA$
25	572501	${\tt CCCATTAGCATTAAGTTATTGAAAAAGTCATCAGTTAATACTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAAAATTAGTGAAAATAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATTAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATTAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAATAGTGAAAAATAGTGAAAAAA$
	572551	${\tt AAAACTGATCACTAGATGCTGAAAGTAACTGAGTAATCTGTTTAGGAATTGAAACTGAATCTGTTTAGGAATTGAAACTGAAAACTGAAAACTGAAAACTGAAAAAAAA$
	572601	${\tt GATTTTCAACAATTTCCCAAGGGTTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCTAATGTTAGAACCGCCAACCCCTAATGTTAGAACCAACC$
30	572651	AGGAAAGTCAATAATCCATTTTGATAGAGAGGCATGCCTAAAGAAATTCT
	572701	${\tt CATCAGTGTTAACTGTTGAGCACCACCATAACTAGGCAAAAGTAAGT$
	572751	$\tt CCCAATTCAAGCTCAGTTCCATCTGCTGCTTTTATTGGTTGATCCTGGCGGGGGGGG$
	572801	$\tt GTTTTTAAGTTTTAAATTACTTGGTTTATAAGGGTGCTCATTTTGAGAATTACTTTTTTTAATTACTTTTTTTT$
35	572851	${\tt TTGCTTGAACACTTTCGTTATACAAGGTTTTAATACCATTATTATCA}$
	572901	GTAACTCCAAAGTGTGAATAGGGTTGAATTGCATACCATCCAGATTGCTC
	572951	${\tt TGTTGGTGTTTGTAAATTCAACTTATAGTTAAAGTTTCTATTTAAGGAAG}$
40	573001	${\tt TGCTTGTTTGTGCACTAAATTTTTGGGGAATAGTACCTGCAATCCCA}$
	573051	ATTAATAAAAGTGCAACTGAACTCAATCCTACATAGGTAAATAAA
	573101	AAAACGTGAAACGATTAATGAAACCCTAAACTTGGTCAAGGGTGACATTG
	573151	${\tt TATGACTTTATGTTTTAAAAGATGAAGAAGAACTGAAAACTTGGTCTCA}$
4 5	573201	${\tt TTGCCTTGATCAATTAAGACATTAACAGGTTTACTAAACAACTGTTTAAA}$
	573251	GGCAATTCAACTAATAAATTCAAAAACAAAAAGGTTATAAAGAAAG
50	573301	CAAAAAACGATAACCAGTTAAAGCTATTTTCAGGTAAAGCAATAAACCAA
	573351	${\tt TACCTATTTATGATTCCCTTTACTTGTCCTTCTAGAAGAAAAGGCAAATAA}$
	573401	AACTCCTAAAAAACTAGAAACAATTGCAACAATACCAGCAAACACACTCA
	573451	${\tt TTCCAACAATAAATTTAGTTGTTGAAAATCCCCCTGCTCTGATAATAGAA}$

	573501	${\tt AACTCAGTTTGATTCTTTTTAATAAATGACTTAATTAAAAGAATAATTAA}$
5	573551	${\tt ATAAAGAGCAAGAATAATCAAAAATATAGCAATAACAGTACTTACT$
	573601	${\tt CCAAATAGCTTTGCACTAAATCAGGAAAATAGTTTCTTGCTGTTGTCAGA}$
	573651	${\tt TAATTAAACTTAGAAATATCTTTAACATTAAATGCTAAATCACTTCTAGG}$
	573701	${\tt AACATCTAGATATCCCTCTAATCTATTAGCAATAAACTGCACTGGGTCTT}$
10	573751	${\tt GGTCAGTGTGCTGTTTAAATCTGTTGACTTAAAAGCATAATAATTTTCT}$
	573801	${\tt TGGTTAGCTGCTAGCAGCAAACAGAATACTTCTGTAAGCTTGATCATT}$
	573851	${\tt AACAAAGATTAACGCTTCATCTTGGGTATTAGGCAACGGAGATTGTAAAG}$
	573901	${\tt ATAACACTGGGTAACCAGTTTCTACTGATTCACCTATACCTAAAATTGCA}$
15	573951	${\tt AATGTTAGTCCGTTAATACTAAATTTATAACGATCAGGTAGATCATTTAA}$
	574001	${\tt CCAGTTAGGGAAATTGTTTGGTGTTTTGCAATGCAGTTTTTCAAGCATATT}$
	574051	${\tt CCCCTTCCTGGGGAAGAATTTCTTTATTGTGTCTAAACAACCATTGTTGA}$
20	574101	${\tt GAAACAACCGCTCCGTGTGCTTCAGGGGTTTGCACAACTAAATTTTGTTG}$
	574151	${\tt ATCAGTAGGTAATATTAATGGATTGACCCCATTTTTAACAGTAATAGGGA}$
	574201	${\tt TCTCAAGCATTTGGCGATTTGTCTCTATTAATTCATTAGGATCTTGAAAA}$
	574251	${\tt GCAGGAGTAAAATAACTTAAAAGTGCAAGATAATTATTAGCTGCTTTTCG}$
25	574301	${\tt TTTATCTTCCTTAAGATTATTAAATCCATTGGCATCTAAATTAGTTC}$
	574351	${\tt ATTGTTTTAAAGCATCTAAAGCAGTAGTTGGGATATTAGTAGCTTCTGGT}$
	574401	${\tt AATTGGGCTTGAGCAATAATATTTGCTAACTTTGGATAAATGGGAAATTT}$
30	574451	${\tt AGTAGATTTGGACTTAAAGCTTGGGTATTTTTAAACTAGCAGTCATTC}$
	574501	${\tt CACCACTACTGGTGCTTGGTTTAAATTCATAATCAATTTTTTGTAAAAAT}$
	574551	CCATTATTAGCATCTTGACCACCATAAATTGTGTCTAAAGGGTTTGATTC
	574601	ATTTTGCTCAGGTTTAAATAACCAAGATTTAAGATCAACGCCATCAATTA
35	574651	AAGAAAGATCGTTGTATCTCTGTTCATCTTTGTTGGAAACTAAAAAACTT
	574701	GCTGACTCTGCTGAACTAACATTGTTAGCTATTGCGATATTTTGCTTTGA
	574751	ATAATCAATGTTATTGAAAGCAGTGGCTTTTAAAAAATGATCACGGTACT
40	574801	TTTCTAAAAGATCAACTGTTTTTTTAACAAGATCCTCTTGAAAGATACTA
	574851	CGTCATTGATCAAGTACTGCTGCATAAACTGCATCAAGGGTTTTTTCAGG
	574901	AGTGTTATTGGACTGGTGAATTTTATTGTATGCAGTTTGAACATTTGAAA
	574951	AGTTAGGATCAGCTATTCCATTACTTGCTTGACTGTTTTGATTTTGAACT
45	575001	AATTGGAGATTGTTGCTTGAAGGTTGAAAAGAAAGATTATTATTTCTTAC
	575051	CATCATTCCATTCTGAGTTTTAAAGATTGTGTCTTTATCACTATCACTAA
	575101	AACCTGGTAAGGAATTGAGAATTGTATCTTTCTCAGATTCAACTTTCTTT
50	575151	TTAAGTCAATCTTTATTAATTTTTAGTTCAAATTTCTTAAGTTGCTTAAG
	575201	TTTATTTTCAAGATCTCAATCTCCAAAAGAGGAATTATTGGCTATAGTTT
	575251	TAGCATTAGTTTCTAACCACTTTAACTGTTCATTATCTAGCTTATTTAAT

	3,3301	TIAGAMATITETIBETITEBETOTIBETOTIBETOTIATETIATETIATETIATETIATETIATETIATETI
5	575351	${\tt TTCTTTTTGGGTTTGAAATTCTTCAACAATTTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTCTTTTAAAAAGGATTGACATTAAAAAGGATTGACATTCTTTTAAAAAAGGATTGACATTAAAAAGGATTGACATTAAAAAGGATTGACATTAAAAAGGATTGACATTAAAAAGGATTGACATTAAAAAGGATTGATT$
	575401	$\tt CTTTCCAAAATTGAGAACCAGGATCGATTTCTAAATCAATTGGGATGTTTCTAAATCAATTGGGATGTTTCTAAATCAATTGGGATGTTTTCTAAATCAATTGGGATGTTTTTTTT$
	575451	GCATAAAGATTGGGAAATCAGTTAGCAGCTTCATTACCACCTGTAAATAG
	575501	ATAGTTAGCAGATATATCAGTATTATCTGCTTTGGTCTCATCACTCTTAA
10	575551	${\tt ACCAAACTTTATCTTTGTTATTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAGTGAATTAACAGTACTGGTTTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTTATAAAAGTGAAATTAACAGTACTGGTTATAAAAGTGAATTAACAGTACTGGTACTGGTTATAAAAGTGAAATTAACAGTACTGGTACTGGTAATTAACAGTAACTGAATTAACAGTACTGAATTAACAGTACTGGTATAAAAGTGAAATTAACAGTACTGAATTAACAGTACTGAATTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAGTACTGAATTAACAGTACTGAATTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAAGTAACAGTACTGAATTAACAAGTAACAGTAACAGTAACAGTAACAAGTAACAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGTAACAAGAAAAAAAA$
	575601	${\tt TCTTTTTGTGGATCATTGTTTGTTTGTTGTTTTTTTTTT$
	575651	TGTTCCTGTGCTTTTTCCTTTATCACCAGGAAAACGCGCAATGCCAGCAC
	575701	${\tt GCAATGAGATAGTTTCTTTAATTAAACCATCAGCAAAATAACCTAGAAGG}$
15	575751	$\tt TTACCACTAGCATCATAAATAAGGTTTTGAGGGTCTGATATTATGTGTCTCTGAGGGTCTGATATTATGTGTCTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGAGAGGGTCTGATATTATGTGTGTCTGAGGGTCTGAGGAGGTCTGATATTATGTGTGTCTGAGGGTCTGAGGAGGTCTGAGAGGGTCTGAGGAGGGTCTGAGAGGGTCTGAGGAGGTCTGAGGAGGGTCTGAGGAGGGTCTGAGGAGGGTCTGAGGAGGGTCTGAGGAGGGTCTGAGGAGGAGGGTCTGAGGAGGGTCTGAGGAGGAGGGTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG$
	575801	ATTTGTAATGGAATCACTAATATCACTACCATTAAAAGAATCAGTATTAT
	575851	TAAAAGAAACTGCTAACCCTTTATAAATTCTTTTTTCAGCAATATTGGCT
20	575901	${\tt TCTCCATATGCTTTTAAAATACCTCTTTTTCTTGCTAAAAAGAGTTTATCCTCTTTTTCTTGCTAAAAAGAGTTTATCCTTTTTTTT$
	575951	$\tt TTTTCATTAACATCGCCTTTGCGGGGAATGGTTTTGTTTTGGTTATCACCTTTTTTTT$
	576001	CACTACCATTACTTTGTCCTGAATCACTTCCAAAATCATTTTCTTGATAA
	576051	GGAAAAAGATAGTTAATTTTTTTATCATCTATCTTTATTTTGGAAAAATA
25	576101	${\tt ACCACTATCATTAGTTAAACTGGCTATATAAACAGGATTAGCTTCCTTTAGCTAGC$
	576151	AAATAGCAGGAGCTACTATATCAGAAGAGTTAGTTTTAGATACTAATGTA
	576201	$\tt GTGTAGGTACTAAGTTGTTACTTAACTGAACAATAGATGTTTCAAGTGTTTCAAGTGTTAACTGAACAATAGATGTTTCAAGTGTTTCAAGTGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTTCAAGTTGTTAAACTGAAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTCAAGTTGTTAAACTGAAACAATAGATGTTTAAACTGAAACAATAGATGTTTAAAATAGATGTTTAAAATAGATGTTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAATAGATGTTAAAAATAGATGTTAAAAATAGATA$
30	576251	GAAAATAATGCTAAATAAAACAAAGATAATTCCAAATAATAAAAAGAAGA
	576301	ACTTTTTAAGCGATTTAAATATCTGTTTAAAAAAAGAAAACATCTCAATT
	576351	${\tt AAACTCAGTTAATTTGTTCGATGGTTTTTGGATTCTGATTTAAATAATCA}$
	576401	ACGATTATCTTGCCATCATGGATTTTAATTACCCGTTTAGCTAATTCCAC
35	576451	${\tt TATCTTTTCGTTGTGGGTAACTATTACTATAGTAGTACCTTTGTCACGATED CONTROL of the control $
	576501	${\tt TATATTCCACAAAAAATTGCAATATTTTTTTGGAAATATCAATATTAACT}$
	576551	${\tt GCTCCAGTAGGTTCATCACCAAACAAATTTTAGGTTCTTTAATTAA$
40	576601	$\tt CCGAGCAATAGCAACACGTTGTTGTTGTCCACCAGAGAGTTTATGAACTTGTGTGTG$
	576651	${\tt TCTTATGTCTATGTTCTTTAATTCCAAGCGTTCTAATAATTCTTCAAGA}$
	576701	${\tt TTATTATAAACCTTTTTTTTAATGGTAGAGCAAGCTTAATATTATCATCATCATCATCATCATCATCATCATCA$
	576751	${\tt AACGTCAAGATCACGCAATAAACCATATTGTTGAAAAATATAACCAACGT}$
45	576801	${\tt TTTTATTTCTTAACGCGGTTAGTTTTGCATCACTACAACATATGGTGTTAGGGGGTTAGGGGGGGG$
	576851	GTTCCACAAACAAACTATCGCCGCTAGTTGGTCGATCTAATGCGGAAAT
50	576901	TAAAGAAAGTAAGCTGGTTTTACCACTACCAGATTTACCAAGAATAACAA
	576951	${\tt CAAATTCTCCTGGAAGAATTTTTAAATTAATGTGGTTACAAATAAGTTGg}$
	577001	TGTTAATGCCATTTGTAACAGCTTTACAAACTTCTTTGAAGTAAATATCA
	577051	TACTTTTTAGCTTCAAATGAATTAAGTGATTTTCTTTTGGGGTGCTTTTT

	577101	ATTTAACTTTTAATTAATTTAGATGCTTTTTTACTAACAGCAAAATCTG
	577151	$\tt ATGATTTTAAGTAAATATCAAACTTTTTGTTCTCTTTTTTTAAAACC$
5	577201	ATAAACAATCATTAAGTCATCTAAAAAAATACCCTGAGAACACTATTAGA
	577251	${\tt AAATTTTAATTTTGCTAAATTACTAATGATGTAATTACATCCCGTAATGA}$
	577301	${\tt ACTGTCATTTCAATCATTTTAGCAACTCTTTTAACTGCCATTAATACAC}$
10	577351	${\tt TTGAATGACTTCTCTTAAATATTTTGCCAATTTGTTGAAATTGCATGTTG}$
, ,	577401	${\tt TACTTTGACGCAAAAGGTAATTACACACATCACGAACACGGACAAGTTC}$
	577451	${\tt TGCTTTACGATTTCTGAAAGTACACTGTCCATAGGAACATTAAATCTAC}$
	577501	${\tt GGCAAACGTTCTCTATTAATAAATAAGGATCAAAGCTCTTTTTATGAAAC}$
15	577551	$\tt TTCTCAAATTCTTCAAAAAGAATTTCTTTTAAATTTTCAGTATTTATT$
	577601	${\tt ATTTTGTTTTGAAGTTTTAGCAAAAAAAAATAATAACTTTGTTGCAATTCCAT}$
	577651	${\tt TTAAAGCACGCACATCGTTACCTGAAATTTGTGCTGCATCATGTCTTGCC}$
20	577701	${\tt TCATTAGTTATTTGGATGTTAGGATCTTTTTTTTTTTAACAGTAAG}$
	577751	${\tt TATTTCACAAAGTGAAGACAAATTATGCTTTTCTATCTTTAGTAATAATC}$
	577801	$\tt CTGATTTAAAGCGAGAAATCATTCTTGCATCAATATCAATTAGTTCATCA$
	577851	${\tt GGAGCCTTATCAGAAACTAAAACAATTTGTTTTTTTTTT$
25	577901	${\tt ATTAAAAATATTGAAAAGAATTTCTAAGGTTTTTTCTTTTCTGCCAAATA}$
	577951	${\tt TTTGAGTGTCATCTATTAAAACTAAATCTAAATTTTCATAATTTTTTT$
	578001	AGTTTTTCTATACCTTTATCCCTTTGATAAAAAGCATCAACAACTTCTTG
30	578051	${\tt GGCAAAATCACTTGAAACAACATACTTTACTCTGGCATTTGGAAAATTAC}$
	578101	GAAATTTTCCTATTGCTTGTAGTAGGTGAGTTTTACCAAGACCG
	578151	GTTTCTCCGTAAATAAAAAGCGGTGAAAATTCGTTATCTTGAGTTTCAGC
	578201	TAATCTAACGCCTGCTTCATAAGCTCTTTTATTTCCTTCACTAATTACAA
35	578251	AGTTTTGAAAAGTATAGTTTTTACTCAATCCAGAATTTTGATAAAGAGTA
	578301	TCACGACTATTTCTTCTAATTTTGCTAAGTTAAAAAAGAAATCTTGCTC
	578351	ATTAACAAAATTAACACTTTTAATTCCTTCATACAAACTTTCAGCTAAAT
40	578401	GAATAATTTCAGAATTATCATTTAAGGAATTACGAGCAAATTCATTTCT
40	578451	AAAAGAATTAAAAGAACATTATTTTTAAATACGAAACGATTAATGTCTTT
	578501	AATGTATTTATCATGAAAACCTATTGTTTTTTCATAATGCTTTTTTAATA
	578551	GAGATTTAAAGGCATTAAATTGTTCCATTATTCTTCTATAACATTGTCAA
45	578601	GAATGATAGTTAAAATTCTCGAAATTGGGATATTAACTGCTTTGGAGTAA
	578651	TTTCTAACTTTTGTCATACTCTTTGACTTGTATAGAAGTGTACACCTGT
		ATCTAGTTTTTCTTGGCGTTCAACAGGAACTATTCCTGGTATTTTTTTT
50	578751	TAGGTTGGGGAGGAATAGGCTGTGGTTGTTGAAAATTT
50		TGATTTTTTTGCTGTAAGAAACCATTATTATGATATTGAAAATTTTGTTC
	578851	CTCTTGAAAATATCTCTCTTTTTTTGGTTTTCCAGAAAAATTTGATGAAA

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	578901	AAGATTTTCCTTCATTTCAATTTTCAAGATTATTTTCATTTTGTTGATTT
-	578951	${\tt ATTTGCTCAGGCTGTTGAAATGAATTATTTTTTGATCAAAAAGATTTTGG}$
	579001	${\tt AAAGGTTTTTCAAAAGCAGATAAAGGTCCAAAATCAAATGAAGATGAAT}$
	579051	${\tt CTTTGTCAAAAGATGTTTCTTCTTTTTTGACAAATTTTGTTTTTGATTA}$
	579101	${\tt AACTTATTTTATTTTGGGGTGTTACTTTTTTTTTTTTTGGAAAACAAATC}$
0	579151	${\tt TTCTTCTAAAAGACTTTGTTCTGGGTCATCATCTTGTGCTAAATCAAAGA}$
	579201	${\tt AAAAACGTTTCTTTTTGTTATTAATGGACATTGTAATTTGCTAAATTTAG}$
	579251	${\tt GATTTCTTTTGTTATTTCTAAATACTCATTTAGATATTTTTTACTTGGTG}$
15	579301	ATGATACTAATGATATTGGCAATTTTTCATAACCTACAGCTGCTGATGAT
	579351	${\tt TTTGATGTCAGAGAAACAAAATTTTTAGAAAAAGCTACATTATTTTTTT}$
	579401	${\tt AGCTTTTGTTTTAGCTAAATCTATTACTTCATTATGAAGACGAGTACGAA}$
	579451	${\tt CGTTAACTTTGTAGGAACTAAAATAGTTTTAAGATTTGTATTTTTTCC}$
20	579501	TTAAATGTATCTATTGTTTCAACTATTCTCATCAAACCTAGCATCGAATA
	579551	${\tt TTGATCTGGTTCAAAGGGAATAACTATGACATCTGATAAACTCATTGCAG}$
	579601	TAGAAACTAAAGTTGCCATATTTGGTGGTGTATCTAATAAAACAAATTCA
25	579651	TATCTTTTTGCTAGTTGCTTAACTATTTCTGCTATATCTGAGGCCTTATA
	579701	${\tt TTTTTTACGTGATATGTCTATATCAGCAAAATTAAGTTCAAAATTACAAG}$
	579751	GAAGAATATCAAGTCCCTCATATACAGATAGCAAGCAATCATCTATTTCA
30	579801	${\tt ATGAAATTATTTGAACCACTGAATTTTGGAACCTTCAACAAAATGTCAAT}$
	579851	${\tt TAACGTGTTATTCAATCTTTCAGGGTTTTGTCCAAATGATGCAGAAACAT}$
	579901	${\tt TCCCCTGCCCGTCAAGATCAAGAATGACTTTTCGCCTTTCTGGACAAAGT}$
35	579951	${\tt TTAACCAATGATCCTGCAACATTAGTTGCCATTGTAGTTTTTAATACGCC}$
	580001	GCCTTTATTATTACAAAAGAAATGATCATATATTAAATGATTATAATA
	580051	TTTCTTTAATACTAAAAAAATAC

While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

All patents, patent applications and publications recited herein are hereby incorporated by reference.

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TABLE 3

TOLE (•		
Whole Genome Sequencing Strategy			
Stage	Description		
Random small insert and large insert library construction	Randomly shear genomic DNA on the order of 2 kb and 15-20 kb, respectively		
Library plating	Maximize random selection of small insert and large insert clones for template production		
High-throughput DNA sequencing	Sequence xxx,xxx templates from both ender (>99% genome coverage)		
Assembly (TIGR Assembler, GRASTA)	Assembly of sequence fragments into contigs		
Gap closure			
a. Physical gaps	Order all contigs into a circular genome and pro vide templates for closure of all physical gaps		
b. Sequence gaps	Complete the genome by primer walking		
Editing	Visual inspection and resolution of all sequence ambiguities when possible, including frameshifts		
Annotation	Identification and description of all ORF's, putative identification, role assignments		
and the second s	1		

TABLE 4

Computer simulation of random sequencing experiments where L = 580,000 and w = 400.					
Clones sequenced (n)	Percent of genome unsequenced	Base pairs unsequenced	Number of dou- ble strand gaps	Average gap length (bp)	
1000	50.18	291014	501	580	
2000	25.18	146016	503	289	
4000	6.34	36759	253	145	
6000	1.60	9254	97	96	
7250	0.67	3886	48	80	
8000	0.40	2330	32	72	
10000	0.10	586	10	59	